



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 05:12 AM UTC

PDB ID : 8RRT / pdb_00008rrt
EMDB ID : EMD-19464
Title : Structure of rabbit RyR1 reconstituted into lipid liposomes in open state in complex with FKBP and Nb9657
Authors : Li, C.; Efremov, R.G.
Deposited on : 2024-01-23
Resolution : 4.60 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

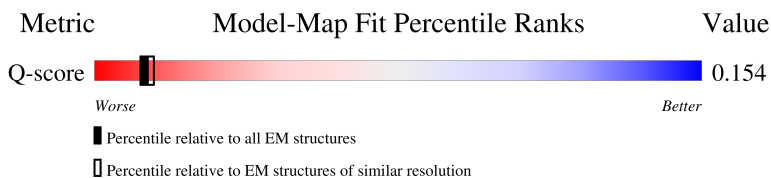
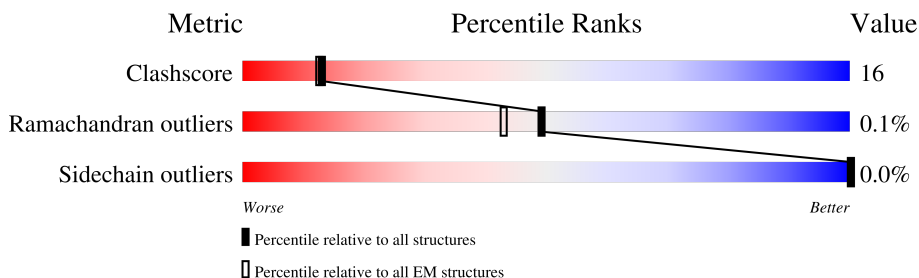
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2407 (4.10 - 5.10)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B	5027	57% 29% 14%
1	E	5027	56% 29% 14%
1	G	5027	56% 30% 14%
1	J	5027	56% 30% 14%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	A	107	 65%35%
2	D	107	 64%36%
2	H	107	 63%37%
2	I	107	 63%37%
3	C	137	 51%41%8%
3	F	137	 50%42%8%
3	K	137	 52%40%8%
3	M	137	 55%36%8%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 143740 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	4319	Total	C	N	O	S	1	0
			34103	21737	5881	6261	224		
1	E	4319	Total	C	N	O	S	1	0
			34103	21737	5881	6261	224		
1	G	4319	Total	C	N	O	S	1	0
			34103	21737	5881	6261	224		
1	J	4319	Total	C	N	O	S	1	0
			34103	21737	5881	6261	224		

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	D	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	I	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	100	ASP	GLY	conflict	UNP Q8HYX6
D	100	ASP	GLY	conflict	UNP Q8HYX6
H	100	ASP	GLY	conflict	UNP Q8HYX6
I	100	ASP	GLY	conflict	UNP Q8HYX6

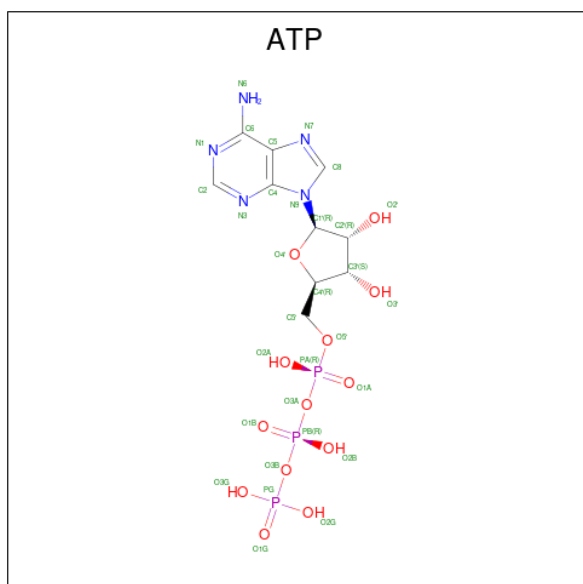
- Molecule 3 is a protein called Nanobody 9657.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	F	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	K	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	M	126	Total	C	N	O	S	0	0
			967	597	170	195	5		

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
4	B	1	Total	Zn	0
			1	1	
4	E	1	Total	Zn	0
			1	1	
4	G	1	Total	Zn	0
			1	1	
4	J	1	Total	Zn	0
			1	1	

- Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃) (labeled as "Ligand of Interest" by depositor).



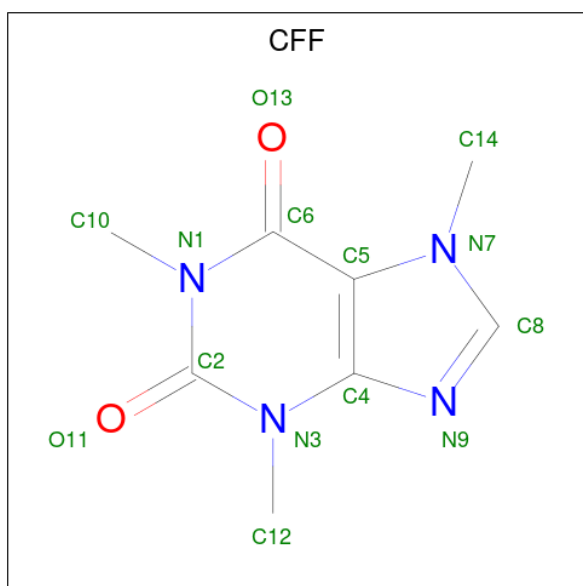
Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	N	O	P	0
			31	10	5	13	3	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf
5	E	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	G	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	J	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 6 is CAFFEINE (CCD ID: CFF) (formula: $C_8H_{10}N_4O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	E	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	J	1	Total	C	N	O	0
			14	8	4	2	

- Molecule 7 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
7	B	1	Total	Ca	0
			1	1	

Continued on next page...

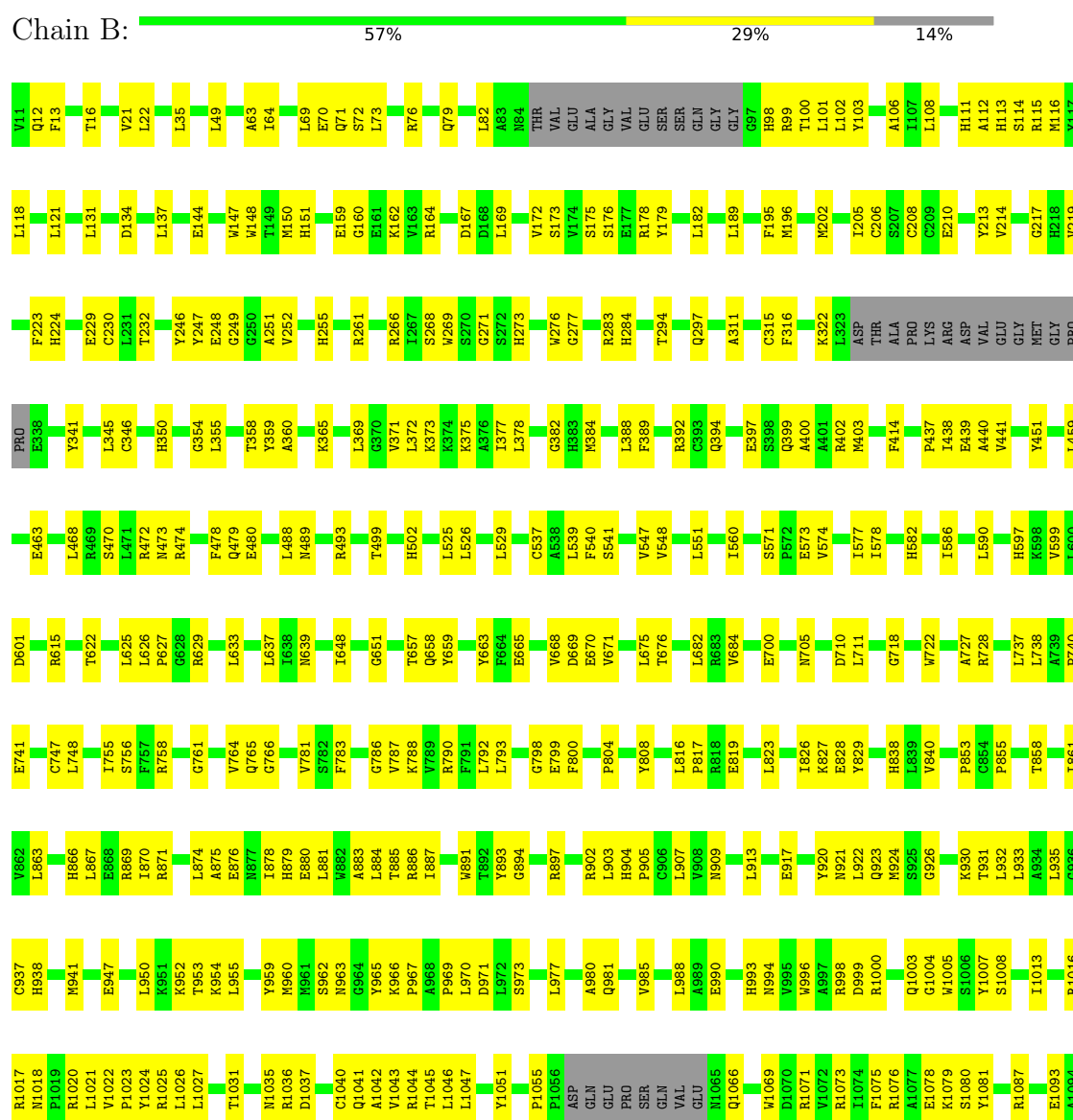
Continued from previous page...

Mol	Chain	Residues	Atoms		AltConf
7	E	1	Total 1	Ca 1	0
7	G	1	Total 1	Ca 1	0
7	J	1	Total 1	Ca 1	0

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Ryanodine receptor 1



G2511	L2512	G2515	L2516	F2517	L2518	L2519	L2522	F2526	F2541	L2550	V2558	L2559	L2562	T2563	C2565	T2572	E2573	H2574	R2575	V2579	D2580	S2581	M2582	T2585	V2586	Y2587	R2588	R2591	G2592	R2593	S2594	L2595	A2598	Q2599	R2600	D2601	V2602	I2603	E2604	D2605	C2606	L2607	M2608	A2609	L2610				
GLU	M2414	L2418	L2419	H2420	L2421	L2422	M2423	L2429	L2430	D2431	R2435	F2439	M2440	H2441	L2442	T2443	T2453	R2454	R2455	G2448	E2449	L2450	L2451	R2452	L2453	R2454	R2458	L2463	L2469	L2472	L2479	K2489	M2490	S2491	F2494	V2495	P2496	D2497	H2498	K2499	M2502	F2505	L2506	R2507	R2508	V2509	V2510		
Y2318	I2321	N2324	P2325	E2329	R2330	D2333	F2334	L2335	R2336	V2352	V2353	R2354	R2355	L2356	L2357	I2358	R2359	E2362	C2363	F2364	G2365	L2368	R2369	G2372	L2376	I2380	E2381	I2384	R2385	P2395	VAL	ARG	ARG	ASP	ARG	ARG	GLU	HIS	PHE	GLY	GLU	PRO	PRO	GLU					
V2207	M2208	E2209	V2210	M2211	V2212	H2213	V2214	L2215	G2216	GLY	GLY	THR	LYS	GLU	L2223	V2229	T2230	C2233	R2234	Y2238	I2242	Q2247	F2251	Y2256	L2257	I2263	G2264	L2265	G2266	S2270	T2271	P2272	L2273	S2279	V2286	L2286	E2292	Q2293	E2296	C2305	G2310	L2313							
L2097	H2100	Q2107	Y2110	V2111	Q2112	S2113	V2117	M2120	F2121	S2122	L2123	R2126	Q2127	Y2128	L2131	L2134	M2153	E2157	R2163	L2166	L2167	I2175	M2178	I2179	I2182	V2190	Q2193	H2194	L2197	M2198	G2202	M2203	H2204	E2205	T2206														
P2001	Q2005	F2012	K2013	L2031	D2037	Q2045	LEU	GLY	GLU	GLU	GLU	GLU	PRO	GLU	GLU	THR	SER	LEU	SER	SER	ARG	LEU	ARG	SER	LEU	GLU	THR	VAL	ARG	LEU	VAL	LYS	LYS	GLU	LYS	ARG	PRO	GLU	GLU	GLU	GLU	GLU	K2089	L2094	Q2095	E2096			
GLU	GLU	GLU	GLU	GLU	GLU	ASP	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU				
ALA	E1793	R1797	L1798	I1802	P1803	L1804	R1808	R1813	M1814	G1816	R1820	D1821	G1822	R1827	D1828	A1723	C1724	R1725	R1726	R1727	K1843	L1844	V1845	M1851	G1852	I1853	F1854	E1857	D1858	V1859	Q1861	I1862	L1863	K1864	M1865	I1866	V1870	F1871	E1874	GLU	GLU	GLU	GLU	GLU	GLU				
Y1670	L1676	N1679	Q1691	L1695	L1698	L1703	P1704	R1708	Y1712	I1716	E1721	S1722	Q1598	M1599	L1600	M1601	V1615	E1616	T1617	R1623	L1624	W1626	A1627	V1628	Q1629	C1630	Q1631	D1637	A1638	L1639	R1646	M1648	D1649	I1650	D1658	H1663	S1664	H1665	T1666	L1667	R1668	L1669							
V1439	G1442	Q1443	F1444	P1445	W1449	P1455	H1458	M1476	G1477	V1483	H1484	S1485	S1486	L1487	K1488	C1489	M1494	G1497	G1498	D1499	F1500	V1501	S1502	F1503	G1504	GLN	GLY	R1508	I1509	D1513	L1514	C1518	L1519	D1521	L1522	L1526	M1527	F1540	F1549	P1550	T1557	H1558	Q1559						
C1192	S1193	L1194	G1195	P1196	V1199	G1200	H1201	V1208	A1215	L1219	Q1220	E1221	F1223	E1224	I1228	ASP	PHE	PHE	LYS	ALA	LYS	LYS	GLN	LYS	ASN	GLY	GLY	GLY	V1248	TRP	GLY	GLY	H1252	E1256	M1260	G1269	L1270	R1271	H1274	R1275	R1290	L1291	S1292	L1293	F1297	T1304	ALA	GLY	ALA
THR	PRO	LEU	ALA	PRO	PRO	LEU	GLN	PRO	ALA	ALA	GLU	ASP	ALA	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	
ALA	GLN	PRO	VAL	ARG	ALA	GLU	ASN	LYS	ASP	THR	THR	LYS	ASN	LYS	ARG	PHE	PHE	LYS	ALA	LYS	LYS	GLN	PRO	GLN	LYS	ASN	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	

H3734	D3531	L3354	E3237	F3152	K3082	F2998	L2926	PR0	Y2691	T2614
E3740	L3532	H3357	E3238	G3153	K3082	A2999	L2927	ARG	D2692	R2615
ASN	L3533	H3358	E3239	V3156	P3085	F3000	L2928	GLU	E2693	S2617
GLY	L3534	I3359	L3246	I3157	E3086	I3001	F2929	GLY	Q2694	S2618
GLU	L3535	P3360	L3247	I3158	K3089	L3002	L2930	Y2855	L2695	L2619
ALA	L3536	T3361	L3248	V3159	L3092	L3003	L2931	N2856	E2784	L2696
CTP	L3537	I3362	I3253	Q3162	L3093	P3004	L2932	P2857	L2785	Q2620
PRE	L3538	L3365	A3261	Q3163	L3094	L3005	L2933	Q2858	T2787	H2621
ARG	L3539	L3366	A3262	V3164	S3094	I3006	L2934	P2859	H2788	L2622
MET	L3540	L3367	C3165	C3166	F3095	Q3007	L2935	P2860	P2789	R2624
E3747	L3541	K3367	Y3263	Y3166	F3096	L3008	A2936	L2861	M2790	R2625
S3752	L3542	K3371	Y3264	R3167	E3097	F3009	L2937	L2862	L2791	L2626
E3755	L3543	K3372	E3265	T3168	S3098	T3011	T2938	S2863	R2792	V2627
K3756	E3547	K3384	M3266	I3172	A3099	N3012	R2939	F2797	L2710	F2628
E3757	E3548	A3385	P3267	I3173	S3100	N3013	GLY	S2866	P2711	D2629
M3758	R3549	E3386	H3268	L3174	E3101	L3018	LEU	S2798	D2716	V2630
E3759	R3550	A3387	Y3269	L3175	D3102	S3019	LYS	E2799	L2717	V2631
K3760	F3551	E3388	I3270	G3176	L3103	T3020	ASP	K2800	K2725	L2632
Q3761	L3552	E3389	L3274	N3180	E3104	P3021	GLU	L2801	LYS	L2633
Y3765	L3553	E3391	M3275	T3181	K3105	A3031	L2946	ALA	ALA	F2636
Q3766	E3558	V3394	M3276	T3182	V3107	S3032	S2950	THR	THR	
Q3767	A3571	R3395	Y3280	K3185	E3111	N3033	R2954	VAL	VAL	
S3768	Q3572	R3396	L3281	R3187	LEU	K3034		ASP	ASP	
R3769	M3573	S3399	P3282	P3188	GLY	E3085	F2957	ALA	ALA	
L3770	A3574	G3399	G3176	L3189	LYS	K3036	G2958	GLU	GLU	
H3771	L3575	V3400	L3315	C3193	VAL	E3037	F2957	GLY	GLY	
T3772	Y3576	L3401	G3317	G3194	GLN	L3042	Q2961	L2813	L2643	
R3773	R3577	C3402	G3318	A3195	ALA	K3045	Q2962	L2814	L2644	
G3774	L3582	D3403	I3319	A3196	ARG	L3046	L2964	A2815	L2645	
A3775	L3583	L3405	L3320	R3197	THR	A3047	R2965	L2816	L2646	
A3776	THR	Y3406	R3321	A3198	GLN	K3048	R2966	L2817	L2647	
E3777	THR	Y3407	I3322	M3201	VAL	L3049	M2967	L2818	L2648	
M3778	LYS	Y3409	I3323	P3202	LYS	V3050	D2968	P2739		
M3793	LYS	Y3410	V3324	P3203	GLY	R3051	L2969	T2742		
L3800	ARG	R3413	R3325	V3203	VAL	H3052	T2970	I2746	C2651	
I3804	ARG	Y3415	L3327	F3205	GLY	R3053	S2970	I2747	K2652	
E3811	ASP	V3416	A3332	E3207	Q3127	V3054	F2973	P2748	Y2654	
V3812	TYR	N3417	T3333	P3208	T3130	F3057	L2974	E2749	T2655	
Q3813	LYS	R3419	W3334	V3218	Y3131	D3060	A2975	K2750	C2656	
K3815	SER	R3420	M3335	K3222	A3135	V3065	H2976	L2751	V2661	
M3816	LYS	W3423	R3337	S3223	L3136	H3069	V2980	F2754	S2668	
F3828	LYS	E3433	L3338	P3224	V3139	I3070	V2981	I2755	E2671	
I3832	ALA	R3436	Y3340	R3225	T3142	R3073	V2986	A2759	L2672	
Q3833	VAL	M3437	F3341	E3226	L3143	S3074	V2906	E2760	L2678	
A3834	TRP	V3438	A3342	R3227	F3144	L3075	P2907	L2673	L2674	
L3835	HIS	Q3439	Q3343	A3228	L3145	L3076	Y2908	K2765		
K3836	LYS	P3440	P3344	I3229	Q3145	D2909	D2909	V2766		
M3837	LEU	I3441	L3345	L3232	H3146	L2910	L2910	F2768		
Q3837	LEU	F3442	V3346	P3233	I3147	R3078	E2993	D2769		
T3838	SER	L3443	E3352	V3236	H3150	V3080	I2995	K2770		
A3730	GLN	Y3444	L3353	V3236	Q3151	M3081	F2997	Q2772		
								N2773		
								E2779		
								ASP		

- Molecule 1: Ryanodine receptor 1

Chain E:



V11	Q12	F13	T16	V21	L22	L35	L49	A63	L64	L69	E70	Q71	S72	L73	R76	Q79	L82	A83	M84	THR	VAL	GLU	ALA	GLY	VAL	GLU	SER	SER	GLN	GLY	GLY	G87	H98	R99	T100	L101	L102	Y103	A106	I107	L108	H111	A112	H113	S114	R115	M116	V117
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------

V1552	V1437	VAL	GLY	P1190	E1093	I1013	A934	T858	A739	V599	E463	PRO	F223	L118
T1557	V1439	ALA	ALA	V1191	A1094	R1017	R935	P740	E741	L500	E338	PRO	H224	L121
Q1558	Q1559	GLN	PRO	S1193	V1095	N1018	G936	I861	E741	D801	L468	Y341	D228	L131
Q1559	Q1443	PRO	LEU	L1194	G1098	P1019	H938	R862	C747	R615	R469	Y341	E229	
N1560	Q1443	VAL	ALA	G1195	F1099	R1020	H938	L863	L748	T822	S470	L345	C230	D134
V1561	E1444	ARG	PRO	P1196	H1100	L1021	H941				L471	L345	L231	
P1445	P1446	ALA	PRO		R1101	L1022	H941				R472	C346	L232	L137
		GLY	GLY	V1199	R1102		E947		I755	L625	R473		V245	L137
W1449	W1450	ASN	LEU	G1200	A1105	Y1024	R950	E868	S756	L626	R474	H350	V245	E144
E1565		GLY	GLN	H1201	R1106	R1025	L950	R869	R758	L626	R474		Y246	
	P1455	LYS	PRO	V1208	P1107	L1026	K952	R870	G761	R629	Q479	G354	Y247	
		ASP	PRO			L1027		R871			E480	L355	E248	W147
	H1458	ALA	ALA		E1114	T1031	T953			L633	L488	T358	G249	W148
		THR	GLY	A1215	L1115		K954	A875	W764	Q634	N489	A251	G250	T149
M1476	G1477	THR	ASP		G1116		L955		G766			A360	M150	H151
		GLY	GLY	L1219		M1035				L637			V252	
		ALA	ALA	Q1220	E1119	R1036	Y959	I878	W781	I838	R493			
		ASN	ARG	E1221		D1037	R961	H879		N839		K365	H255	E159
V1483	H1484	LYS	ALA	G1222	V1123		S962	E880	S782		T499		A256	G160
S1485	S1486	GLY	GLY	E1224	N1125	Q1041	N963	L881	F783	I648		L369	R257	K162
L1487	L1487	PHE	PRO	L1228	G1126	A1042	G964	L884	G786	G651	H502	L372	R261	V163
K1488	K1488	LEU	ASP	M1229	H1127	R1043	Y965	T885	W787	T857	K516	K373	R266	R164
C1489	C1489	PHE	PRO		R1128	L1044	K966	R886	K788	Q858	L525	K375	R267	D167
E1596		LYS	ASP		G1129	T1045	P967	I887	W789	Q859	L526	A376	D168	D169
V1597		LYS	TYR	R1232	Q1130	L1046	A968		F791	Y659	L529	I377	W269	L169
Q1598	M1494	ALA	GLY		R1131	L1047	P969			Y663		L378	S270	
		LYS	ASN	K1240	W1132		L970	W891	L792	Y664			G271	W172
	G1497	LYS	LEU	S1241	H1133	Y1051	D971	H892	L793	F864	C537	G382	G271	V173
L1613	L1614	ALA	ARG	L1242	L1134		L972	Y893	G798	A538	L539	H383	W276	S174
Q1614	D1499	ALA	ARG	P1243		P1055	S973	G894	E799	M384	F540	M384	G277	S175
F1500	F1501	MET	SER	Q1244	P1138	ASP		R897	F800	D669	S541	F389	S176	S176
E1616	V1501	MET	ALA	F1245			L977			E670		L388	E177	E177
T1617	S1503	THR	GLY		W1143	GLN		R902	P804	V671	V547	F389	R283	R178
P1503	P1503	GLN	GLY	V1248		GLY	A980	L903			V548	R392	H284	Y179
G1504	G1504	PRO	THR	P1249	V1148	PRO	Q981	H904	Y808	L675		C393	T294	H180
L1624	L1624	PRO	GLY	H1252	M1152	SER	V985	P905		T676	L551	Q394	Q297	H181
G1625	GLN	ALA	GLY			VAL		L907	L816	L682		Q394	Q297	L182
W1626	GLY	THR	ALA	E1256	D1153	GLY	L988	L908	P817	L883	I560	E397	A311	L189
R1508	A1627	PRO	GLY		L1155	M1065	A983	N909	R818	R833		S396	A311	
I1509	I1509	ALA	GLY	M1260		Q1066	E990		E819	V684		S396	A311	
		GLY	GLY						R820			Q399	C315	F196
D1513	D1513	PRO	LYS	C1269	T1159	W1069	H993	L913	R822	E700	S571	A401	F316	M196
C1630	L1651	PRO	GLY	L1270	I1161	D1070	N994		R822	L821	E573	A400		
Q1631	L1514	LEU	GLY	R1271		R1071	V995	E917	L823	W705	V574	R402	K322	M202
		THR	THR		M1170	R1072	A997					M403	L823	
		ALA	ALA						I826	D710	I577		ASP	T205
C1518	C1518	HTS	LYS	H1274	E1176	R1073	H998	N921	K827	L711	I578	F414	THR	C206
L1519	L1519	ASP	LYS	R1275	T1177	I1074	R998	L922	E828			ALA	ALA	
V1520	V1520	VAL	GLY			F1075	D999	Q923	Y829	G718	H582	P437	PRO	E210
D1522	L1522	VAL	GLY	R1290	A1178	R1076	R1000	M924				I438	LYS	
I1650	I1650	PRO	THR	L1291	A1179	A1077			H838	W722	I586	E439	ARG	Y213
		ALA	PRO									A440	ASP	Y214
L1526	L1526	PRO	PRO	L1291	F1179	A1077							VAL	
M1527	M1527	ASP	GLY	S1292	R1180	E1078	Q1003	S925	H838				ARG	
		GLY	GLY	L1293	E1181	K1079	L1004	G926	L840	A727	L590	V441	ASP	
		GLY	GLY											
		THR	THR	F1297	E1182	S1080	W1005	R728	L839				VAL	
F1540	F1540	PRO	PRO		Y1081	Y1081		K930	P853	R728	N596	Y451	GLY	G217
		GLN	GLN					T931	P853		H597		GLY	H218
F1549	F1549	THR	THR					L932	L932		C854		GLY	
P1550	P1550	PRO	PRO										GLY	
L1627	L1627	GLY	GLY	T1304	E1184	R1087	S1008	L932	P855	L737			MET	
		GLY	GLY											

L2926	L2927	F2928	F2929	L2930	L2931	M2932	N2933	G2934	A2935	A2936	V2937	T2938	R2939	GLY	LEU	LYS	ASP	MET	GLU	L2946	S2950	R2954	F2957	G2958	Q2961	Q2962	L2963	L2964	L2965	V2966	M2967	D2968	I2969	S2970	F2973	A2975	H2976	L2977	E2978	V2980	V2986	S2989	E2992	Q2993	F2994	I2995	K2996	F2997	F2998				
ASP	PRO	ARG	GLU	GLY	Y2855	L2856	P2857	Q2858	P2859	F2860	L2861	L2862	S2863	T2866	L2867	S2868	L2871	M2874	L2878	A2879	E2880	N2881	V2882	H2883	A2815	M2816	L2817	T2885	W2886	G2887	R2888	Q2892	E2893	L2894	E2895	K2897	G2898	Q2900	T2901	H2902	F2903	L2904	L2905	V2906	P2907	Y2908	D2909	E2994	L2910	T2911	E2915	Q2924	E2925
H2688	K2689	F2690	V2691	Q2692	Q2693	E2694	L2695	Y2696	M2697	M2698	C2702	I2706	L2710	P2711	D2716	L2725	ALA	THR	VAL	ASP	ALA	GLU	GLY	N2734	P2739	L2742	L2746	L2747	P2748	K2749	L2750	L2751	F2754	I2755	A2759	E2760	E2764	K2765	M2766	A2767	F2768	D2769	K2770	L2771	Q2772	N2773							
E2779	N2780	E2783	E2784	L2785	L2786	K2787	H2788	P2789	M2790	L2791	R2792	P2793	F2797	S2798	E2799	K2800	D2801	K2802	R2806	K2810	L2813	K2814	A2815	M2816	I2817	A2818	M2819	E2820	W2821	L2822	R2827	E2830	GLU	GLU	THR	GLU	LYS	LYS	THR	ARG	ILE	SER	GLN	THR	ALA	GLN	THR	THR					
L2506	D2507	R2508	V2509	G2510	G2511	L2512	Q2515	L2516	F2517	L2518	L2519	L2522	F2526	F2541	L2550	V2558	L2559	I2562	T2563	K2564	C2565	T2567	E2572	E2573	H2574	R2575	V2579	D2580	S2581	M2582	T2585	R2588	R2591	G2592	R2593	S2594	L2595	A2598	Q2599	R2600	D2601	V2602	L2603	E2604	C2605	L2607							
M2608	A2609	L2610	I2614	R2615	P2616	S2617	M2618	L2619	Q2620	H2621	L2622	L2623	R2624	R2625	L2626	V2627	V2630	P2631	L2632	L2633	F2636	M2639	P2640	L2641	K2642	L2643	L2644	T2645	M2646	H2647	Y2648	C2651	K2652	Y2654	Y2655	C2656	W2661	S2668	E2671	L2672	H2673	L2674	K2677	L2678	I2682	F2683	L2684						
C2310	L2313	L2313	Y2318	T2321	V2320	M2324	M2325	N2326	E2329	R2330	D2333	F2334	L2335	R2336	V2352	V2353	R2355	L2356	L2357	I2358	R2359	E2362	C2363	F2364	G2365	L2368	R2369	G2372	L2376	L2380	E2381	T2384	R2385	P2396	GLY	VAL	ARG	ASP	ARG	ARG	ARG	ARG	GLU	HIS	PHE	GLY							
G2202	M2203	H2204	E2205	T2206	V2207	M2208	E2209	V2210	M2211	V2212	N2213	V2214	L2215	G2216	GLY	GLU	THR	L2223	V2229	T2230	C2233	R2234	Y2238	I2242	Q2247	F2251	Y2256	L2257	I2263	G2264	L2265	G2266	S2270	T2271	P2272	L2273	S2279	V2295	P2296	E2297	Q2298	E2299	C2305										
GLU	K2089	L2094	E2095	E2096	L2097	H2100	Q2107	Y2110	V2111	Q2112	S2113	V2117	M2120	F2121	S2122	L2123	R2126	Q2127	Y2128	L2131	L2134	L2138	A2141	Y2142	M2153	E2157	R2163	L2166	E2175	M2178	I2179	T2182	V2190	Q2193	H2194	Q2197	M2198																
R1964	K1968	Q1973	P2001	Q2005	F2012	K2013	L2031	D2037	Q2045	LEU	GLY	GLU	GLU	GLU	GLU	PRO	GLU	GLU	THR	SER	LEU	SER	ARG	LEU	ARG	SER	LEU	THR	VAL	LEU	VAL	LYS	LYS	GLU	LYS	LYS	GLU	LYS	PRO	ALA	GLU												
GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU							
R1668	L1669	Y1670	L1676	L1676	L1679	Q1691	L1695	L1698	L1703	P1704	R1708	Y1712	I1716	I1721	S1722	A1723	C1724	R1725	S1726	R1727	F1836	Q1837	F1838	V1839	K1843	E1741	L1844	V1845	M1851	G1852	I1853	F1854	E1857	D1858	V1859	K1860	Q1861	I1862	L1863	K1864	M1865	I1866	S1778	P1779	P1780	A1784	A1785						
L1786	P1787	ALA	GLY	VAL	ALA	E1793	R1797	L1798	L1802	P1803	L1804	R1808	R1813	M1814	G1816	D1820	D1821	G1822	R1827	D1828	F1836	Q1837	F1838	V1839	K1843	E1741	L1844	V1845	M1851	G1852	I1853	F1854	E1857	D1858	V1859	K1860	Q1861	I1862	L1863	K1864	M1865	I1866	V1870	F1871	A1784	A1785							

TYR	L4247	D4118	K4021	E3944	F3928	Y3720	LYS	V4338	P3344	L3232	T3147	R3078	K3989
ARG		E4121	D4022	E3945	F3928	L3721	ALA	G3439	I3345	L3232		T3079	K3000
SER		G3947	M4023	E3946	F3928	Y3722	VAL	E3440	V3346	P3233	H3150	V3080	I3001
LEU		M4122	V4024	G3947	I3832	M3723	TRP	I3441	I3441	V3236	H3150	M3081	L3002
ARG		I4123	V4025	K3948	I3833	A3724	HIS	F3442	A3349	V3237	G3153	K3082	L3003
ARG		M4124	K4026	R3949	A3834	L3728	LYS	I3443	I3383	E3237	G3153	P3004	L3005
VAL		F4125	L4027	M3955	I3835	M3729	LEU	Y3444	I3384	E3238	V3156	E3085	L3006
GLY		E4126			K3836	A3730	LEU	W3445	L3384	L3246	V3157	E3086	K3007
ARG		E4127			M3836	M3729	SER		H3357	L3246		K3089	K3008
ARG		F4128		A3958	T3838	A3730	LYS	N3450					
LEU		K3959		K3959	V3941	H3734	GLN	F3451	F3358	L3249	V3161	L3092	F3010
ARG		Q3960		Q3960	L3842	E3740	ARG	F3455	I3359	M3250	Q3162	F3011	L3011
LEU		V3961		V3961	L3842	ASN	ARG	E3455	P3360		Q3163	S3094	N3012
THR		F3962		F3962	L3842	GLY	ARG	Q3455	I3362		C3185	F3095	
GLY		L3965		L3965	M3845	GLY	ALA	N3457	I3362	A3261	Y3166	F3096	L3018
ALA		E4134		E4134	A3846	GLU	VAL	F3458	I3362	R3262	R3167	E3097	S3019
GLU		T3967		T3967	F3847	ALA	VAL	V3459	I3362	Y3263	T3168	S3098	T3020
GLY		Y3968		Y3968	E3848	GLU	ALA	V3460	I3362	T3264	T3172	A3099	P3021
ALA		I3969		I3969	K3849	GLU	CYS	Q3461	K3367	E3265		S3100	K3022
ALA		Q3970		Q3970	Q3850	E3747	PHE	I3464	K3371	M3266		E3101	K3023
THR					M3870	S3752	ARG	K3475	K3384	P3267	L3175	D3102	A3031
ALA		C3973		C3973	K3873	E3755	MET	K3475	K3384	H3268	G3176	E3103	S3032
LEU		T3974		T3974	V3874	K3756	SER	SER	E3385	I3270	N3180	E3104	K3033
ALA		G3975		G3975	K3875	E3757	LYS	MET	E3387	I3270	T3181	K3105	K3034
LEU		N3976		N3976	K3875	E3758	ALA	ALA	E3388	L3274	K3185	K3106	E3035
LEU		Q3977		Q3977	A3876	M3758	ALA	LYS	E3388	P3275	R3187	K3107	K3036
TRP		Q3978		Q3978	D3877	E3759	ALA	ALA	E3391	M3276	G3186	R3111	E3037
VAL		F3981		F3981	K3880	Q3761	GLY	ASP	E3391		P3188	GLY	K3038
VAL		H3982		H3982	F3882	Y3765	ASP	ASP	V3394	Y3280		LYS	L3042
ALA		S3983		S3983	L3884	Q3766	ALA	ALA	R3395	L3281	G3191	VAL	K3045
ALA		R3984		R3984	F3885	Q3767	GLN	GLN	F3398	P3282	E3192	SER	K3046
GLY		L3985		L3985	F3886	Q3767	SER	SER	F3398	L3315	C3193	GLN	L3047
GLY		W3986		W3986	F3887	S3768	GLY	GLY	V3400	L3316	L3194	ALA	A3047
ALA		D3987		D3987	L3888	R3769	SER	SER	L3401	G3317	A3195	ARG	A3048
ALA					Q3889	L3770	GLY	ASP	C3402	R3318	R3196	THR	L3049
GLY		F3992		F3992	L3890	H3771	R3671	ASP	R3403	I3319	L3197	GLN	V3050
ALA		L3993		L3993	E3893	T3772	M3673	GLN	D3404	R3320	A3198	VAL	H3051
GLY		H3994		H3994	E3893	R3773	T3674	GLU	L3405	R3321		LYS	H3052
ALA		V3995		V3995	Q3906	Q3774	D3675	ARG	V3406	I3322	M3201	GLY	R3053
ALA		F3996		F3996	Q3906	A3775	D3676	THR	V3406	I3322	P3202	VAL	V3054
ALA		A3997		A3997	T3912	E3776	K3679	LYS	Y3409	I3324	V3203	GLY	
GLY		H3998		H3998	T3912	A3777	K3679	LYS	Y3409	N3325	A3204		F3057
ALA		M3999		M3999	Q3883	M3778	LYS	LYS	T3413	N3326	F3205		D3060
LEU		M4000		M4000	Q3883	M3778	ARG	ARG	R3414	L3327	L3206	T3130	
ARG		M4001		M4001	T3919	M3793	ARG	ARG	Y3415	L3327	E3207	Y3131	
LEU		F3999		F3999	V3690	L3800	GLY	GLY	V3416	A3332	P3208	T3132	
LEU		L4003		L4003	L3923	L3800	ASP	ASP	V3416	A3332	P3208		V3065
TRP		Q4009		Q4009	L3926	T3804	TYR	TYR	R3417	T3333	V3218		K3066
GLY		L4013		L4013	L3926	E3811	K3693	K3694	R3418	R3334	V3218	A3135	C3057
LEU		K4014		K4014	Y3934	E3811	K3694	K3694	R3419	M3336	K3222	L3136	L3068
PHE		L4015		L4015	Y3934	E3811	H3699	H3699	R3419	R3337	K3222	V3139	T3070
GLY		E4015		E4015	Y3937	Q3812	Q3700	L3510	R3420	R3337	S3223		
GLY		L4016		L4016	Q3814	Q3814	Q3700	V3511	W3423	L3438	R3225	T3142	R3073
GLY		L4017		L4017	K3815	K3815	V3702		E3433	R3340	E3226	L3143	S3074
LEU		D4018		D4018	D3941	M3816	TYR	L3514	E3436	F3341	R3227	F3144	L3075
VAL		L4019		L4019	V3942	M3816	LYS	K3515	R3436	R3341	A3228	Q3145	D3076
GLU		Q4020		Q4020	I3943	L3820	LYS	K3516	M3437	Q3343	T3229	H3146	A3077

A2141	ARG	L2143	GLU	E1741	V1628	R1508	LEU	M1260	I1160	W1069	N994	E917	I826
Y2142	LEU	I2144	GLU	T1742	Q1629	I1509	PRO	C1269	I1161	D1070	Y995	E917	K827
I2144	SER	I2144	GLU	R1743	Q1630	D1513	ARG	L1270	M1170	V1071	Y996	Y920	E828
M2153	LEU	M2153	PRO	A1744	Q1631	L1514	LEU	R1271	E1176	V1072	A997	N921	Y829
E2157	LEU	E2157	GLU	I1745	M1637	C1518	HIS	H1274	E1177	I1073	R998	L922	H838
R2163	GLU	R2163	GLY	F1748	A1638	L1519	ASP	R1275	A1178	F1075	D999	Q923	L839
L2166	VAL	L2166	GLU	P1749	L1639	L1521	VAL	R1276	F1179	R1076	R1000	M924	V840
I2167	ARG	I2167	GLU	R1758	R1646	D1522	PRO	R1290	E1181	E1078	G1004	G926	P853
E2175	LEU	E2175	GLY	E1759	C1647	L1526	ALA	L1291	I1182	K1079	W1005	K930	C854
M2178	VAL	M2178	ASP	L1771	M1648	L1527	ASP	S1292	E1183	Y1081	S1006	P855	P855
I2179	LYS	I2179	L1922	R1772	D1649	M1527	GLY	L1293	I1184	S1007	Y1007	T931	T858
L2182	LYS	L2182	L1926	P1773	I1650	F1540	THR	F1297	L1189	R1087	S1008	L932	L932
V2190	GLU	V2190	L1931	H1775	D1658	F1549	GLN	T1304	L1190	E1093	D1012	A934	I861
Q2193	PRO	Q2193	L1939	S1778	H1663	F1549	PRO	ALA	P1190	A1094	I1013	L935	L863
H2194	GLU	H2194	L1942	P1779	S1864	P1550	VAL	GLY	C1192	V1095	R1017	G936	L863
Q2199	GLU	Q2199	L1945	P1780	T1666	A1551	GLU	ALA	S1193	G1098	R1018	C937	H866
H2199	LEU	H2199	Y1945	F1782	L1667	T1557	PRO	LEU	L1194	E1099	P1019	M941	L867
Q2199	PRO	Q2199	Q1949	C1781	R1668	Q1443	VAL	ALA	P1196	G1195	R1020	E947	R869
L2197	ALA	L2197	Q1949	A1784	H1558	Q1444	ARG	PRO	V1199	R1101	P1022	L870	I870
M2198	GLU	M2198	R1964	A1785	Y1670	P1445	ALA	PRO	G1200	A1105	Y1024	L850	R871
G2202	GLU	G2202	K1968	L1786	L1676	W1449	GLU	GLY	H1201	R1106	R1025	K951	L874
M2203	GLU	M2203	Q1973	P1787	L1676	V1450	ASN	LEU	V1208	P1107	L1026	K952	A875
H2204	GLU	H2204	P2001	ALA	N1679	P1455	GLU	GLN	A1215	E1114	L1027	T953	E876
E2205	GLU	E2205	Q2005	GLY	H1683	Q1565	ASP	PRO	ALA	L1115	T1031	K954	N877
T2206	GLU	T2206	L2004	ALA	Q1569	Q1569	ALA	ALA	L1219	G1116	Y1035	L955	I878
M2208	GLU	M2208	K2013	E1793	Q1691	I1572	THR	ASP	Q1220	E1119	R1036	Y959	H879
V2210	GLU	V2210	F2012	R1798	L1695	M1573	GLU	ALA	G1222	M961	D1037	E880	E880
M2211	GLU	M2211	K2013	L1798	L1695	P1574	THR	ALA	F1223	S962	N963	L881	L881
V2212	GLU	V2212	L2031	L1802	L1698	L1575	ASN	ARG	E1224	V1123	G1040	A883	A883
N2213	GLU	N2213	L2031	P1803	L1703	S1576	LYS	ALA	ALA	F1124	Q1041	N963	L884
V2214	ASP	V2214	D2037	P1704	P1704	A1577	ARG	ALA	E1224	G1126	A1042	T885	T885
L2215	GLU	L2215	Q2045	R1708	R1708	L1581	PHE	PRO	R1232	R1128	R1044	R886	R886
G2216	GLU	G2216	Q2045	R1808	R1808	R1584	LEU	ASP	R1232	Q1130	L1046	P969	W891
GLY	LEU	GLY	Q2045	R1813	R1813	R1584	PHE	ASP	T1235	H1131	L1047	T892	T892
M2120	GLU	M2120	GLU	M1814	M1814	R1594	LYS	TYR	K1240	W1132	L1047	Y893	Y893
F2121	GLU	F2121	GLU	L1815	L1815	L1595	ALA	GLU	S1241	H1133	Y1051	G894	G894
S2122	GLU	S2122	GLU	G1816	G1816	E1596	ASN	LEU	L1242	L1134	P1055	P895	P895
L2123	GLU	L2123	GLU	E1721	E1721	Q1598	LYS	ALA	P1243	P1138	P1056	R897	R897
R2126	GLU	R2126	GLU	A1722	A1722	Q1598	ALA	ARG	Q1244	W143	ASP	R902	R902
Q2127	PRO	Q2127	PRO	C1724	C1724	M1599	MET	SER	F1245	V1143	GLN	L903	L903
Y2128	GLU	Y2128	GLU	R1725	R1725	F1500	THR	ALA	Q1245	V1148	PRD	H904	H904
L2131	GLU	L2131	GLU	R1827	R1827	V1501	GLN	GLY	V1248	M1152	SER	P905	P905
L2134	GLU	L2134	GLU	R1828	R1828	Q1614	PRO	TRP	P1249	M1152	GLN	V985	C906
C2233	THR	C2233	THR	F1836	F1836	E1616	GLY	GLY	H1262	M1153	VAL	L988	V908
R2234	ASP	R2234	ASP	Q1837	Q1837	T1617	ALA	GLU	H1262	D1154	GLU	A889	N909
Y2238	ALA	Y2238	ALA	L1731	L1731	R1623	THR	ALA	E1256	L1155	Q1065	E990	L913
L2138	GLU	L2138	GLU	F1838	F1838	R1623	PRO	GLU	E1256	L1155	Q1065	H953	P914
L2138	SER	L2138	SER	V1839	V1839	L1624	GLY	GLY	E1256	T1159	GLY	H953	P914

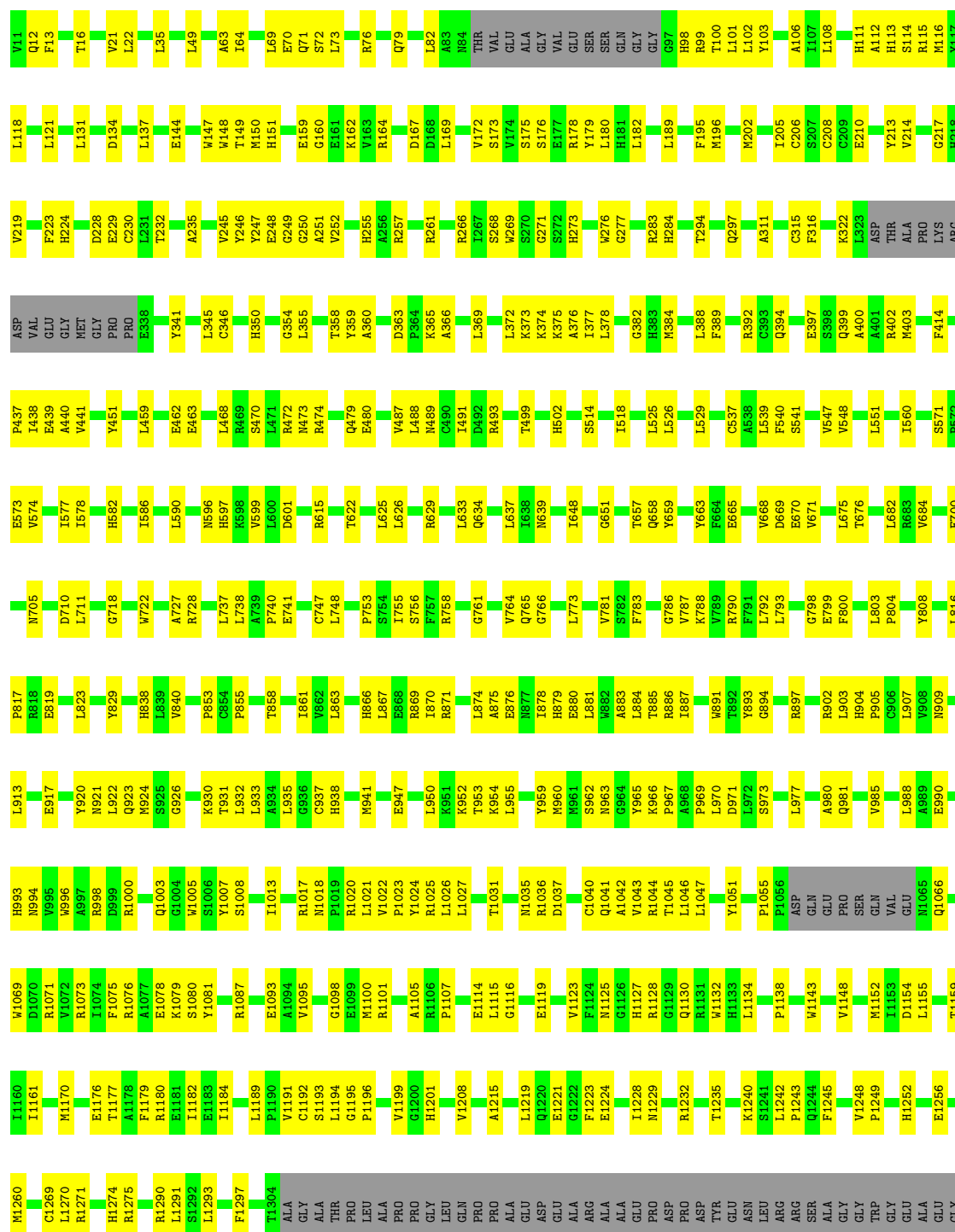
F3398	E3192	K3045	N2884	I2817	GLY	K2642	H2574	R2452	G2365	I2242
S3399	C3193	L3046	T2885	A2818	N2734	L2643	R2575	I2453	L2368	Q2247
V3400	L3194	L3047	W2886	W2819	P2739	T2645	V2579	R2454	R2369	F2251
L3401	A3195	A3047	G2887	G2820	T2739	T2646	D2580	R2458	G2372	Y2256
C3402	R3196	A3048	R2888	W2821	T2742	H2647	D2581	L2463	L2376	L2257
R3403	L3197	L3049	Q2892	I2823	I2746	Y2648	K2582	L2463		
D3404	V3050	V2967	E2893	R2827	I2747	C2651	L2583	I2469		
L3405	K3051	D2868	E2894	L2830	P2748	W2652	L2585	I2380		
Y3409	R3052	S2970	E2895	R2827	P2749	G2653	V2586	L2472		
I3413	G3203	F2973	A2896	E2830	K2750	Y2654	L2587	L2479		
R3414	V3202	L2894	G2898	GLY	L2751	Y2655	R2588	L2479		
Y3415	G3203	F2973	G2899	GLY	K2897	C2656				
D3416	V3204	A2978	G2900	THR	F2754	W2661	R2591	K2489		
V3417	P3207	E2978	G2900	GLY	I2755	S2668	R2593	M2490		
N3418	V3218	V2980	H2901	LYS	A2759	E2671	S2694	F2494		
R3419	K3222	V2981	P2903	LYS	E2760	L2672	L2595	V2495		
R3420	K3222	V2986	L2904	THR	E2764	L2678		P2496		
W3423	S3223	V2986	L2905	ARG	K2765	H2673		D2497		
E3433	R3224	S2989	V2906	LYS	W2766	L2674		H2498		
R3436	R3225	V2989	P2907	ILE	A2767			R2600		
M3437	S3226	E2992	Y2908	SER	F2768	K2677		ARG		
V3438	P3227	Q2993	D2909	GLN	T2769	L2678		GLY		
G3439	A3228	Q2994	L2911	THR	K2770			GLY		
R3440	I3229	L2995	L2911	ALA	L2771			GLU		
E3441	L3232	K2996	T2997	THR	T2772	D2683		GLU		
F3442	P3233	F2998	Y2997	THR	N2773	D2684		GLU		
L3443	V3236	L2999	Q2924	ASP	E2779			PRO		
V3444	E3237	K3000	L2926	PRO				GLU		
W3445	E3238	I3001	L2927	ARG	E2783	K2688		GLU		
N3450	L3246	P3085	K2928	GLY	E2784	L2690		GLU		
F3451	L3249	E3086	Y2930	GLY	L2785			N2414		
N3457	M3250	K3089	Q2931	Y2855	K2786	Q2683		L2418		
F3458	I3253	L3092	M2932	P2857	T2787	E2694		G2419		
V3459	I3253	K3093	N2933	Q2858	H2788	L2695		H2420		
V3460	A3261	S3094	G2934	P2859	P2789	L2696		A2421		
Q3461	R3262	R3095	Y2935	P2860	L2790	R2697		M2423		
I3464	Y3263	F3096	L2937	D2861	L2791	M2698		L2522		
K3475	T3264	S3097	T2938	L2862	R2792			L2623		
SER	E3265	S3098	P2939	S2863	P2793	C2702		L2429		
LYS	M3266	E3101	L2939	T2866	S2797	I2706		I2430		
MET	M3267	E3102	LYS	L2867	S2798	P2711		D2431		
ALA	H3268	D3102	ASP	S2868	E2799	D2716		R2435		
LYS	V3269	I3103	MET	L2871	K2800			L2439		
ALA	I3270	K3104	GLY	L2874	D2801	LYS		M2440		
GLY	L3274	K3105	L2946	A2875	K2802	K2795		H2441		
ASP	P3275	V3107	S2950	L2878	R2806	THR		I2443		
ALA	M3276	R3111	P2954	L2879	K2810	VAL		K2447		
GLN	Y3280	LEU	G2957	A2879	L2813	ASP		G2448		
SER	L3281	GLY	F2957	E2880	K2814	ALA		C2455		
GLY	P3282	LYS	G2958	I2881	A2815	ALA		A2450		
GLY				H2882	M2816	GLU		F2364		

V4830	Q4699	SER	GLY	ALA	GLY	ARG	ALA	I4218	D4092	V3995	L3890	H3771	R3672	M3573	SER
M4833	Q4700	GLY	ALA	F4219	F4093	LYS	ALA	F4229	F4093	F3996	E3893	T3772	M3673	ASP	
V4838	D4702	GLY	MET	E4229	A4096	GLY	ALA	M4097	A4096	H3998	E3893	G3774	R3674	GLN	
V4841	R4703	GLY	VAL	E4232	D4098	ASP	ALA	M4099	D4098	M3999	Q3906	A3776	D3676	ARG	
F4856	L4704	GLU	GLY	E4240	S4099	GLY	ALA	Q4100	S4099	M4000	T3912	E3777	R3679	THR	
F4859	F4719	GLY	GLY	D4240	Q4100	GLY	ALA	F4103	Q4100	L4003	C3918	M3778	K3682	LYS	
R4860	L4725	ASP	VAL	T4241	F4103	GLY	ALA	T4104	F4103	Q4009	T3919	M3793	Q3683	LYS	
V4863	K4727	ASP	LEU	F4242	T4104	GLY	ALA	G4105	T4104	L4013	L3923	V3690	R3594	ARG	
M4864	H4728	GLU	VAL	E4244	G4105	VAL	LEU	M4245	E4244	E4015	L3926	K3693	R3595	GLY	
M4865	F4735	PRO	ALA	M4246	T4108	PRO	ALA	Q4246	M4246	L4016	L3926	K3694	V3596	ASP	
C4876	R4736	GLY	GLY	I4247	L4112	GLY	ALA	L4017	L4112	D4018	Y3934	P3695	Q3597	ARG	
D4877	T4737	GLY	PRO	S4251	L4112	GLY	ALA	D4018	L4112	V3812	Y3934	K3683	T3592	TYR	
M4878	I4738	GLY	LYS	T4252	S4115	LYS	LEU	L4019	S4115	Q3813	Y3937	H3699	L3509	LYS	
M4880	E4739	GLY	VAL	E4253	D4118	VAL	ARG	Q4020	D4118	Q3814	V3937	R3690	T3510	LYS	
R4892	L4740	PRO	ALA	PRO	D4118	PRO	ARG	K4021	D4118	K3815	D3941	V3702	V3511	LYS	
I4901	L4741	GLY	ALA	GLU	M4122	GLY	ARG	D4022	M4122	M3816	V3942	E3718	L3514	LYS	
P4904	M4743	PRO	VAL	GLY	I4123	PRO	VAL	M4023	I4123	V3812	V3942	D3719	K3515	LYS	
V4909	M4743	PRO	VAL	GLY	M4124	PRO	VAL	V4025	M4124	Q3945	E3943	V3720	K3516	LYS	
R4913	L4744	GLY	VAL	ALA	F4125	GLY	LEU	M4026	F4125	Q3946	E3945	V3721	M3517	LYS	
V4914	L4744	GLY	VAL	ALA	E4126	GLY	ALA	L4027	E4126	G3947	G3947	V3722	L3518	VAL	
I4918	P4760	ASP	ALA	ASP	E4127	ASP	ARG	L4031	E4127	K3948	K3948	T3722	P3519	TRP	
I4931	P4761	ASP	GLY	GLY	F4128	GLY	MET	L4031	F4128	R3949	R3949	A3724	M3524	LYS	
L4935	T4766	GLY	GLY	GLY	A4129	GLY	PRO	M4039	A4129	M3955	M3955	I3728	K3528	LEU	
A4939	M4767	GLY	PRO	GLY	R4131	GLY	ASP	I4040	R4131	M3836	M3836	M3729	T3529	SER	
R4942	I4771	ASN	PHE	PRO	F4132	ASN	THR	M4044	F4132	A3988	A3988	A3730	R3529	LYS	
L4943	D4772	GLY	ARG	THR	Q4133	GLY	ALA	V4045	Q4133	Q3960	Q3960	H3734	Q3530	LYS	
Q4946	V4773	LYS	PRO	GLY	E4134	LYS	ASP	M4047	E4134	V3841	V3841	R3734	D3531	GLN	
Q4947	K4774	GLY	GLY	ALA	F4135	GLY	THR	L4048	F4135	L3842	L3842	ARG	L3532	ARG	
E4948	Y4775	GLY	ALA	ALA	M4142	VAL	ALA	M4049	M4142	L3965	L3965	ASN	L3533	ARG	
V4950	Q4776	GLY	GLY	ALA	T4148	GLY	ALA	V4049	T4148	T3966	T3966	GLY	L3534	ARG	
L4951	K4779	ASP	GLY	GLY	M4149	PRO	ALA	M4057	M4149	E3967	E3967	ALA	L3535	ALA	
E4952	V4782	MET	GLY	ALA	L4150	ALA	LEU	F3947	L4150	Y3968	Y3968	VAL	A3536	VAL	
D4953	I4783	GLY	PRO	GLY	S4151	PRO	LEU	F4061	S4151	T3969	T3969	ALA	T3538	ALA	
M4954	S4788	SER	MET	GLY	E4152	PRO	ALA	D4063	E4152	Q3970	Q3970	GLY	R3539	CYS	
E4955	M4796	ALA	GLY	ALA	Y4177	PRO	VAL	M4064	Y4177	C3973	C3973	PHE	Y3540	PHE	
T4956	L4800	ALA	THR	ALA	M4184	PRO	VAL	M4064	M4184	T3974	T3974	MET	L3541	ARG	
R4821	L4803	GLY	THR	ALA	R4192	PRO	GLY	F4077	R4192	G3975	G3975	ARG	L3542	ARG	
K4822	F4807	ALA	ALA	ALA	S4198	SER	ALA	Q4078	S4198	E3975	E3975	VAL	E3547	VAL	
L4823	T4825	GLY	GLY	GLY	E4199	PRO	GLY	D4079	E4199	K3756	K3756	ALA	E3548	ALA	
R4824	T4826	SER	GLY	ALA	T4200	PRO	GLY	Y4080	T4200	M3875	M3875	ALA	V3549	ALA	
T4825	L4827	TRP	ILE	ALA	M4201	GLY	GLY	V4081	M4201	R3876	R3876	ALA	R3550	ALA	
I4826	L4827	TRP	ALA	ALA	M4207	GLY	GLY	I4088	M4207	F3887	F3887	ALA	E3551	ALA	
L4827	L4827	GLY	LYS	ALA	F4208	PRO	ALA	S4089	F4208	Q3766	Q3766	ALA	F3552	ALA	
					Q4209	GLY	ALA	K4090	Q4209	S3768	S3768	ALA	L3553	ALA	
					V4210	THR	ALA	K4091	V4210	L3770	L3770	ALA	E3670	ALA	
					ALA	ALA	ALA		ALA				D3671	ALA	



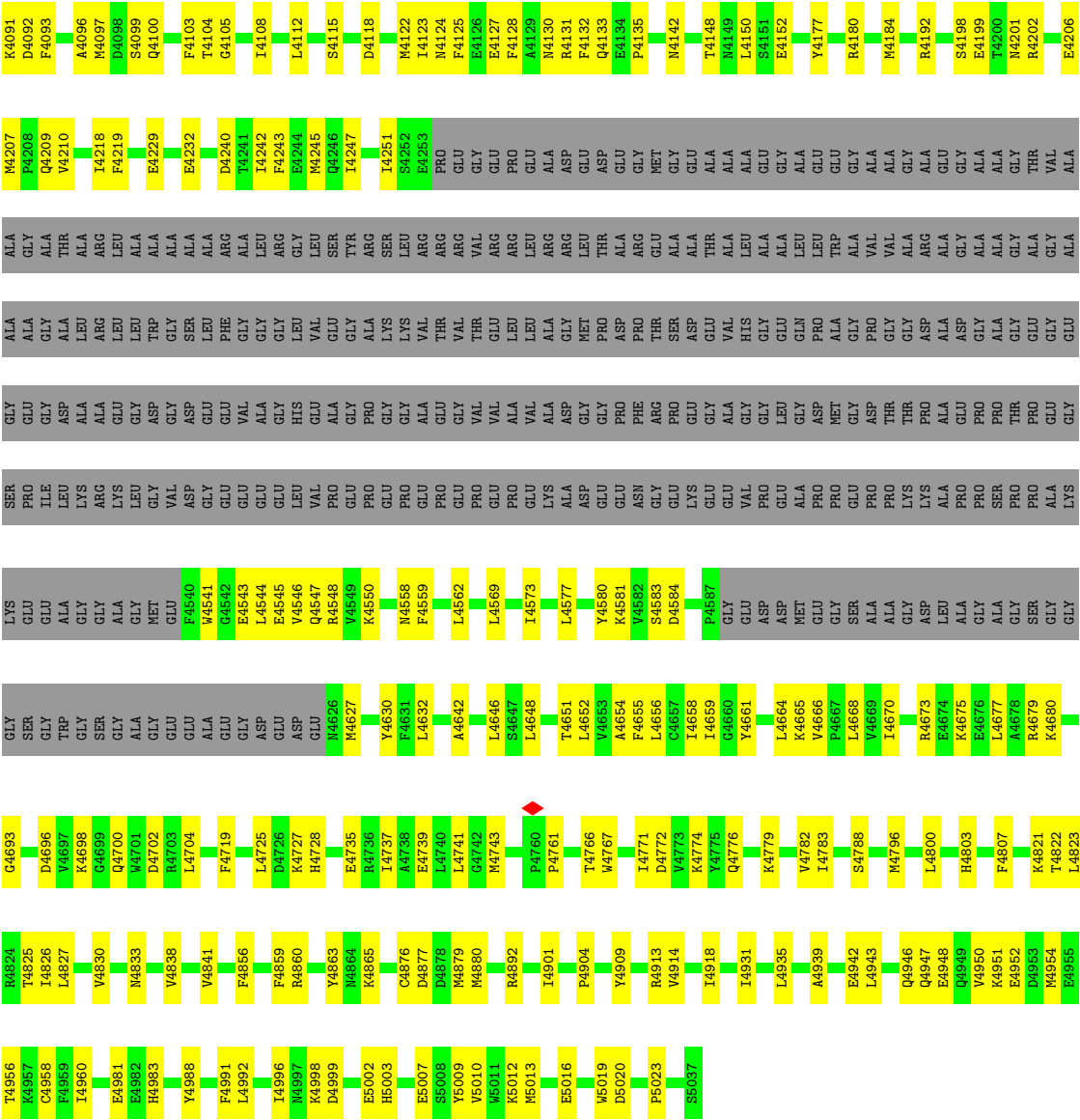
● Molecule 1: Ryanodine receptor 1

Chain J: 56% 30% 14%



P2739	H2647	V2579	R2454	L2368	F2251	Y2142	LEU	GLU	K1843	E1741	G1625	LEU	P2739
T2742	Y2648	D2580	R2458	R2369	Y2256	M2153	ARG	GLU	L1844	T1742	W1626	LYS	T2742
I2746	C2651	M2582	L2463	G2372	L2257	E2157	SER	GLU	V1845	A1627	ARG	GLY	I2746
I2747	W2652	M2582	L2463	L2376	L2263	R2163	LEU	ALA	M1851	R1743	PRO	THR	I2747
P2748	Y2654	T2585	L2469	L2380	G2264	R2163	LEU	GLY	G1852	A1744	ALA	HIS	P2748
E2749	Y2655	R2588	L2472	E2381	L2266	L2166	THR	GLY	I1853	I1745	ASP	LYS	E2749
K2750	C2656	R2588	L2472	E2381	M2267	L2166	VAL	LYS	F1854	F1748	VAL	GLY	K2750
L2751	W2661	R2591	L2479	L2384	Q2268	E2175	ARG	GLY	E1857	P1749	VAL	THR	L2751
F2754	G2592	R2591	L2479	R2385	Q2269	E2175	VAL	ASP	A1638	R1758	ALA	PRO	F2754
I2755	S2668	R2593	K2489	R2385	G2269	E2175	LYS	LYS	L1922	L1639	ASP	GLY	I2755
A2759	E2671	S2594	K2490	P2395	S2270	M2178	LYS	LYS	R1646	P1763	GLY	THR	A2759
E2760	L2672	S2594	N2490	GLY	T2271	I2179	LYS	LYS	K1860	R1772	PRO	PRO	E2760
E2764	L2674	L2595	S2491	VAL	L2272	I2182	GLY	GLY	Q1861	P1773	GLN	GLN	E2764
K2765	L2677	A2598	F2494	ARG	L2273	I2182	GLY	GLY	L1862	P1774	VAL	VAL	K2765
A2767	L2678	R2600	P2496	ARG	L2279	V2190	PRO	GLY	K1864	H1775	GLY	GLY	A2767
F2768	I2682	E2603	D2497	ARG	L2286	Q2193	GLY	GLY	I1866	S1778	VAL	VAL	F2768
I2771	F2683	D2604	K2498	ARG	Q2293	H2194	LEU	GLY	V1870	P1779	ALA	GLY	I2771
K2770	D2684	E2605	M2502	HIS	E2296	M2198	ALA	ALA	E1874	A1784	ARG	ARG	K2770
Q2772	L2771	C2606	L2506	GLY	C2305	G2202	GLY	GLY	GLU	P1787	GLY	GLY	Q2772
N2773	H2688	M2603	L2506	GLY	C2310	M2203	GLY	GLY	GLU	ALA	ALA	ASN	N2773
E2779	K2689	A2609	D2507	GLY	E2205	H2204	PRO	GLY	GLU	GLY	GLY	GLY	E2779
N2780	Y2691	L2610	R2509	PRO	L2313	T2206	Q2095	GLY	K1968	GLY	VAL	ASP	N2780
E2783	C2693	R2615	G2611	GLY	Y2318	M2208	L2097	GLY	P2001	L1676	ALA	ASP	E2783
E2784	L2695	S2617	L2512	N2414	I2321	V2210	H2100	GLY	GLU	N1679	ALA	GLY	E2784
L2785	Y2696	L2618	Q2515	L2418	M2324	M2211	L2100	GLY	GLU	Q1691	LYS	THR	L2785
K2786	R2697	L2619	D2516	G2419	P2325	V2212	Q2107	GLY	GLU	R1797	LYS	THR	K2786
T2787	M2698	Q2620	F2517	H2420	R2325	N2213	L2107	GLY	GLU	L1695	ASN	GLY	T2787
H2788	L2702	H2621	L2518	A2421	E2329	V2214	Y2110	GLY	GLU	L1698	LYS	LYS	H2788
P2789	C2702	L2692	L2519	L2422	R2330	L2215	Q2112	GLY	GLU	P1803	ARG	ARG	P2789
L2790	T2706	R2624	L2522	M2423	D2333	G2216	S2113	ASP	GLU	L1703	GLY	GLY	L2790
L2791	R2624	R2625	F2526	L2429	F2334	GLY	V2117	GLY	GLU	P1704	PHE	LEU	L2791
R2792	L2710	V2627	L2626	D2431	R2336	THR	L2117	LEU	GLY	R1708	PHE	LYS	R2792
P2793	P2711				R2336	LYS	M2120	GLY	GLY	Y1712	LYS	LYS	P2793
F2797	D2716	V2630	F2541	R2435	R2336	GLY	L2120	GLY	GLY	M1494	ALA	ALA	F2797
S2798	L2732	P2631	L2550	E2439	V2352	L2223	F2121	GLY	GLY	E1596	LYS	LYS	S2798
E2799	K2725	L2633	V2558	L2559	V2353	V2229	S2122	GLY	GLY	Q1598	LYS	LYS	E2799
K2800	ALA	L2633	L2559	H2441	R2354	T2230	R2126	GLY	GLY	S1722	ALA	ALA	K2800
D2801	THR	F2636	L2442	L2443	L2356	Q2127	Q2127	PRO	GLY	G1723	GLY	GLY	D2801
K2802	VAL		L2562	L2443	L2357	C2233	Y2128	GLY	GLY	C1724	GLY	GLY	K2802
R2806	ASP	M2639	T2563	K2447	L2358	R2234	L2131	GLY	GLY	R1725	THR	THR	R2806
K2810	ALA	L2640	K2564	G2448	R2359	R2234	L2131	THR	GLY	S1726	GLN	PRO	K2810
L2813	GLY	K2642	C2565	E2449	E2362	Y2238	L2134	SER	GLY	R1727	GLY	PRO	L2813
K2814	N2734	L2643	T2572	A2450	C2363	L2242	L2134	LEU	ALA	F1836	ASP	GLN	K2814
A2815	F2735	L2644	L2573	L2451	F2364	L2242	L2138	LEU	GLY	Q1837	GLY	GLY	A2815
N2816	D2736	T2645	H2574	R2452	Q2365	Q2247	L2138	SER	LYS	L1731	LYS	PRO	N2816
L2817		N2646	R2575	I2453			A2141	ARG	GLY	V1734	ALA	ALA	L2817

V3995	L3890	H3771	R3672	R3582	ASP	S3399	L3316	C3193	GLN	L3046	R2965	R2888	K2819
F3996	E3893	T3772	K3673	R3582	GLN	V3400	G3317	L3194	ALA	A3047	M2966	R2888	E2820
H3998	R3773	G3774	I3674	R3582	GLU	C3402	I3318	A3195	ARG	A3048	M2967	R2888	E2821
M3999	Q3906	G3775	D3676	I3592	ARG	R3403	I3319	R3196	THR	L3049	M2968	R2888	T2822
M4000	A3776	A3776	K3677	V3593	THR	D3404	R3321	L3197	GLN	V3050	L2969	R2888	T2823
M4001	T3942	E3777	K3679	R3594	LYS	L3405	R3322	A3198	VAL	R3051	S2970	R2888	L2823
K4002	C3918	M3778	Q3683	R3595	LYS	L3405	I3323	M3201	LYS	H3052	F2973	R2888	R2827
L4003	T3919	M3793	Q3683	V3596	ARG	Y3409	V3324	P3202	GLY	R3053	F2974	R2888	E2830
Q4009	L3923	L3600	V3690	Q3597	ARG	Y3409	I3325	V3202	GLY	V3054	A2975	R2888	GLU
L4013	L3923	L3600	V3690	Y3604	GLY	T3413	R3326	A3204	GLY	F3057	G2898	R2888	GLU
K4014	L3926	I3804	K3693	H3605	ASP	R3414	I3327	F3205	THR	D3060	H2977	R2888	THR
E4015	L3926	I3804	K3694	L3606	ARG	Y3415	L3327	F3206	ARG	L2901	G2999	R2888	THR
L4016	S3929	E3811	P3695	E3607	THR	V3416	A3332	E3207	GLY	L2902	H2977	R2888	GLU
L4017	S3929	E3811	P3695	Q3608	THR	D3417	T3333	P3208	VAL	V3065	A2979	R2888	LYS
D4018	Y3934	Q3812	Q3700	P3612	L3509	N3418	T3334	V3218	T3130	N3066	G2999	R2888	LYS
L4019	Y3934	Q3813	L3701	P3612	L3510	R3420	I3335	F3218	T3131	C3067	G2999	R2888	THR
Q4020	Y3937	Q3814	V3702	Q3608	V3511	L3423	R3337	K3222	T3132	L3068	P2907	R2888	ARG
K4021	M3816	Q3815	V3702	Q3608	THR	V3423	L3338	S3223	V3139	H3069	Y2908	R2888	LYS
D4022	L3820	E3718	E3718	Q3612	L3514	E3433	A3339	P3224	T3142	I3070	D2909	R2888	ILE
M4023	L3820	D3719	E3718	Q3612	K3515	E3433	R3340	R3225	T3143	R3073	E2992	R2888	GLN
V4024	F3628	Y3720	Y3720	Q3612	K3516	R3436	F3341	E3226	E2994	S3074	E2994	R2888	THR
V4025	F3628	L3721	L3721	Q3612	THR	M3437	A3342	R3227	I2995	L3075	I2995	R2888	ALA
M4026	E3944	L3722	L3722	Q3612	L3518	V3438	Q3343	A3228	I2996	D3076	I2996	R2888	GLN
L4027	E3945	K3723	K3723	Q3612	P3519	E3439	P3344	I3229	F2997	A3077	F2997	R2888	THR
L4031	E3945	K3723	K3723	Q3612	L3519	G3440	I3345	L3232	F2998	R3078	A2999	R2888	THR
M4039	E3947	L3835	L3835	Q3612	L3520	F3442	V3346	P3233	K3000	V3080	K3000	R2888	ASP
I4040	E3947	L3835	L3835	Q3612	L3521	R3443	I3346	V3236	I3001	L3082	I3001	R2888	PRO
M4044	E3958	H3734	H3734	Q3612	L3522	Q3445	E3352	E3237	K3082	F2929	K3082	R2888	ARG
V4045	E3958	H3734	H3734	Q3612	L3523	Q3445	L3353	E3238	L3003	F2929	L3003	R2888	GLY
M4046	E3959	ASN	E3740	Q3612	L3524	N3450	L3354	E3246	F3004	F2930	F3004	R2888	GLY
M4047	E3961	GLY	E3740	Q3612	L3524	F3451	F3357	L3249	I3005	M2932	I3005	R2888	M2855
L4048	F3962	GLU	GLU	Q3612	L3524	F3451	I3359	L3249	I3006	M2932	I3006	R2888	M2856
V4049	F3962	ALA	ALA	Q3612	L3524	F3451	F3360	I3253	I3007	M2932	I3007	R2888	P2857
M4057	L3965	ALA	ALA	Q3612	L3524	F3451	T3361	I3253	I3008	M2932	I3008	R2888	Q2858
F4061	T3966	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3009	M2932	I3009	R2888	F2859
F4062	T3966	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3010	M2932	I3010	R2888	P2860
D4063	T3967	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3011	M2932	I3011	R2888	T2981
M4064	T3967	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3012	M2932	I3012	R2888	L2862
K4067	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3013	M2932	I3013	R2888	L2862
V4072	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3014	M2932	I3014	R2888	L2862
F4077	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3015	M2932	I3015	R2888	L2862
Q4078	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3016	M2932	I3016	R2888	L2862
D4079	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3017	M2932	I3017	R2888	L2862
V4080	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3018	M2932	I3018	R2888	L2862
L4081	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3019	M2932	I3019	R2888	L2862
I4088	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3020	M2932	I3020	R2888	L2862
S4089	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3021	M2932	I3021	R2888	L2862
K4090	T3974	ALA	ALA	Q3612	L3524	F3451	I3362	I3253	I3022	M2932	I3022	R2888	L2862



● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B



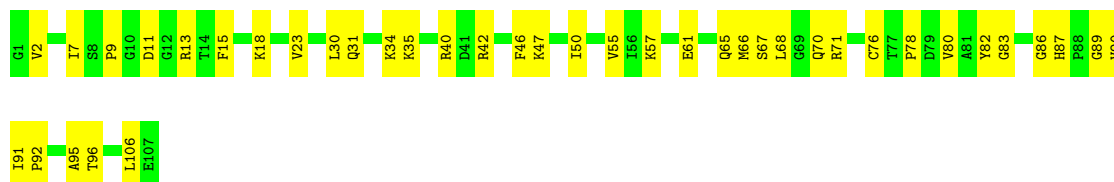
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B





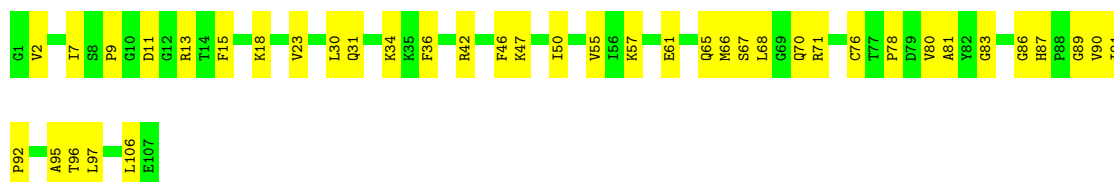
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain H: 63% 37%



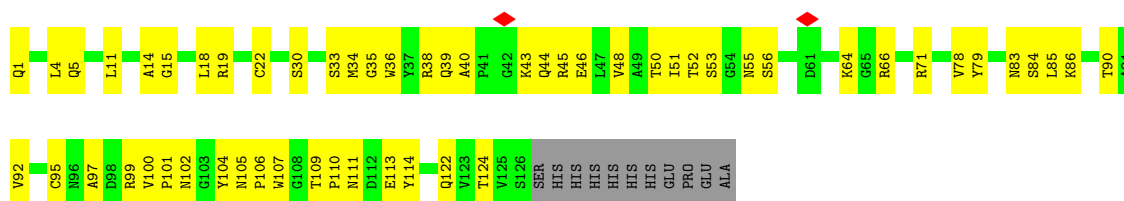
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain I: 63% 37%



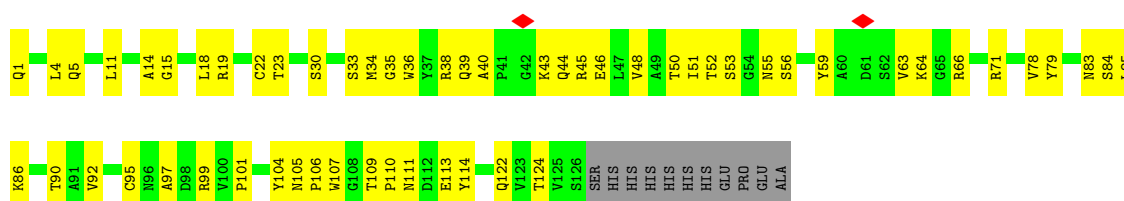
• Molecule 3: Nanobody 9657

Chain C: 51% 41% 8%



• Molecule 3: Nanobody 9657

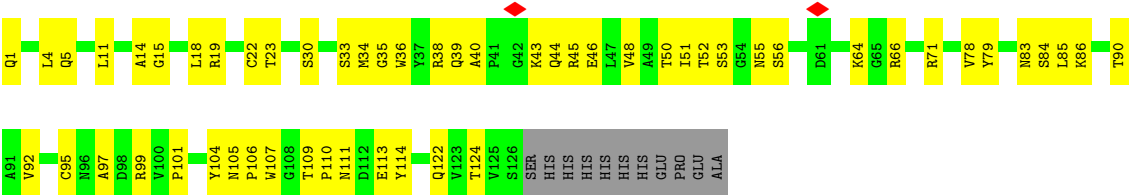
Chain F: 50% 42% 8%



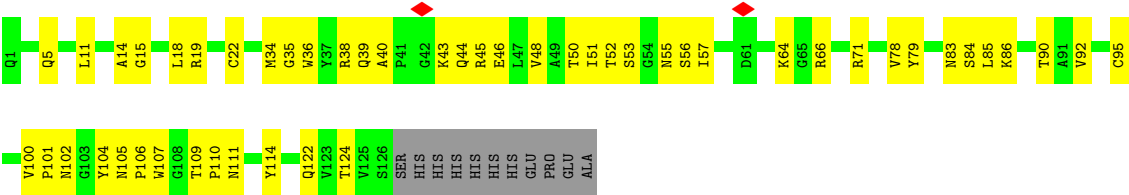
• Molecule 3: Nanobody 9657

Chain K: 52% 40% 8%





● Molecule 3: Nanobody 9657



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	26815	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	5.503	Depositor
Minimum map value	-0.105	Depositor
Average map value	0.053	Depositor
Map value standard deviation	0.121	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	504.0, 504.0, 504.0	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.5, 1.5, 1.5	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CFF, ATP, CA, ZN

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	B	0.13	0/34879	0.35	1/47280 (0.0%)
1	E	0.13	0/34879	0.34	1/47280 (0.0%)
1	G	0.13	0/34879	0.35	1/47280 (0.0%)
1	J	0.13	0/34879	0.35	1/47280 (0.0%)
2	A	0.21	0/834	0.47	0/1123
2	D	0.21	0/834	0.47	0/1123
2	H	0.21	0/834	0.47	0/1123
2	I	0.21	0/834	0.48	0/1123
3	C	0.18	0/987	0.49	0/1340
3	F	0.18	0/987	0.49	0/1340
3	K	0.17	0/987	0.49	0/1340
3	M	0.17	0/987	0.47	0/1340
All	All	0.14	0/146800	0.35	4/198972 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1503	PRO	N-CA-CB	7.25	110.09	103.20
1	J	1503	PRO	N-CA-CB	7.23	110.07	103.20
1	G	1503	PRO	N-CA-CB	7.20	110.04	103.20
1	B	1503	PRO	N-CA-CB	7.17	110.01	103.20

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	34103	0	33491	1103	0
1	E	34103	0	33491	1106	0
1	G	34103	0	33491	1110	0
1	J	34103	0	33491	1112	0
2	A	818	0	824	26	0
2	D	818	0	824	30	0
2	H	818	0	824	33	0
2	I	818	0	824	31	0
3	C	967	0	916	50	0
3	F	967	0	916	51	0
3	K	967	0	916	49	0
3	M	967	0	916	46	0
4	B	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0
4	J	1	0	0	0	0
5	B	31	0	12	2	0
5	E	31	0	12	1	0
5	G	31	0	12	1	0
5	J	31	0	12	2	0
6	B	14	0	10	1	0
6	E	14	0	10	1	0
6	G	14	0	10	1	0
6	J	14	0	10	1	0
7	B	1	0	0	0	0
7	E	1	0	0	0	0
7	G	1	0	0	0	0
7	J	1	0	0	0	0
All	All	143740	0	141012	4657	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

All (4657) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2874:MET:HE3	1:G:2937:VAL:HG11	1.54	0.88
1:J:2874:MET:HE3	1:J:2937:VAL:HG11	1.54	0.88
1:E:2874:MET:HE3	1:E:2937:VAL:HG11	1.54	0.87
1:B:2874:MET:HE3	1:B:2937:VAL:HG11	1.54	0.86
1:B:3261:ALA:HB3	1:B:3266:MET:HE1	1.58	0.86
1:G:1616:GLU:HG3	1:G:1629:GLN:HG3	1.58	0.86
1:J:3261:ALA:HB3	1:J:3266:MET:HE1	1.58	0.86
1:E:1008:SER:HB2	1:E:1017:ARG:HE	1.41	0.85
1:J:1616:GLU:HG3	1:J:1629:GLN:HG3	1.58	0.85
1:E:2214:VAL:HG13	1:E:2215:LEU:HD12	1.58	0.85
1:J:2214:VAL:HG13	1:J:2215:LEU:HD12	1.58	0.85
1:B:2214:VAL:HG13	1:B:2215:LEU:HD12	1.59	0.85
1:G:2214:VAL:HG13	1:G:2215:LEU:HD12	1.58	0.85
1:G:1008:SER:HB2	1:G:1017:ARG:HE	1.41	0.85
1:E:3261:ALA:HB3	1:E:3266:MET:HE1	1.58	0.84
1:G:897:ARG:HD3	1:G:905:PRO:HD3	1.57	0.84
1:B:3315:LEU:HD22	1:B:3345:ILE:HG12	1.60	0.84
1:B:1008:SER:HB2	1:B:1017:ARG:HE	1.41	0.84
1:G:3261:ALA:HB3	1:G:3266:MET:HE1	1.58	0.84
1:E:1616:GLU:HG3	1:E:1629:GLN:HG3	1.58	0.83
1:E:3315:LEU:HD22	1:E:3345:ILE:HG12	1.60	0.83
1:J:1008:SER:HB2	1:J:1017:ARG:HE	1.41	0.83
1:B:1616:GLU:HG3	1:B:1629:GLN:HG3	1.58	0.83
1:G:3315:LEU:HD22	1:G:3345:ILE:HG12	1.60	0.83
1:J:223:PHE:HA	1:J:230:CYS:HA	1.61	0.82
1:G:1154:ASP:HB3	1:G:1223:PHE:HE1	1.44	0.82
1:J:3315:LEU:HD22	1:J:3345:ILE:HG12	1.60	0.82
1:G:223:PHE:HA	1:G:230:CYS:HA	1.61	0.82
1:B:1154:ASP:HB3	1:B:1223:PHE:HE1	1.44	0.82
1:G:1813:ARG:HH22	1:G:1814:MET:HE2	1.45	0.82
1:B:248:GLU:HB3	1:B:373:LYS:HA	1.61	0.81
1:E:1813:ARG:HH22	1:E:1814:MET:HE2	1.45	0.81
1:E:1154:ASP:HB3	1:E:1223:PHE:HE1	1.44	0.81
1:J:1154:ASP:HB3	1:J:1223:PHE:HE1	1.44	0.81
1:J:1813:ARG:HH22	1:J:1814:MET:HE2	1.45	0.81
1:E:223:PHE:HA	1:E:230:CYS:HA	1.61	0.81
1:B:1813:ARG:HH22	1:B:1814:MET:HE2	1.45	0.80
1:B:223:PHE:HA	1:B:230:CYS:HA	1.61	0.80
1:E:2755:ILE:HD12	1:E:2813:LEU:HG	1.64	0.80
1:B:2755:ILE:HD12	1:B:2813:LEU:HG	1.64	0.80
3:F:111:ASN:HA	3:F:114:TYR:HD2	1.47	0.79
1:J:2755:ILE:HD12	1:J:2813:LEU:HG	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:111:ASN:HA	3:K:114:TYR:HD2	1.48	0.79
1:G:2755:ILE:HD12	1:G:2813:LEU:HG	1.64	0.79
1:J:880:GLU:HG2	1:J:967:PRO:HB2	1.65	0.79
1:E:3967:GLU:HA	1:E:3970:GLN:HG2	1.64	0.78
1:J:3967:GLU:HA	1:J:3970:GLN:HG2	1.64	0.78
1:B:3967:GLU:HA	1:B:3970:GLN:HG2	1.64	0.78
3:M:105:ASN:HD21	3:M:111:ASN:HB2	1.49	0.78
1:G:3967:GLU:HA	1:G:3970:GLN:HG2	1.64	0.78
1:G:880:GLU:HG2	1:G:967:PRO:HB2	1.65	0.78
1:E:880:GLU:HG2	1:E:967:PRO:HB2	1.65	0.77
3:C:111:ASN:HA	3:C:114:TYR:HD2	1.48	0.77
1:J:116:MET:HG2	1:J:137:LEU:HB3	1.67	0.77
1:G:116:MET:HG2	1:G:137:LEU:HB3	1.67	0.77
1:B:3332:ALA:HB1	1:B:3335:MET:HE3	1.66	0.77
1:B:1215:ALA:HA	1:B:1219:LEU:HB3	1.67	0.77
1:B:116:MET:HG2	1:B:137:LEU:HB3	1.67	0.76
1:E:2788:HIS:HB3	1:E:2791:LEU:HB2	1.67	0.76
1:G:3332:ALA:HB1	1:G:3335:MET:HE3	1.66	0.76
1:E:3332:ALA:HB1	1:E:3335:MET:HE3	1.65	0.76
1:G:1215:ALA:HA	1:G:1219:LEU:HB3	1.67	0.76
1:G:1527:MET:HB3	1:G:1540:PHE:HB2	1.68	0.76
1:B:880:GLU:HG2	1:B:967:PRO:HB2	1.65	0.76
1:B:1527:MET:HB3	1:B:1540:PHE:HB2	1.68	0.76
1:E:1527:MET:HB3	1:E:1540:PHE:HB2	1.68	0.76
1:J:1215:ALA:HA	1:J:1219:LEU:HB3	1.67	0.76
1:E:1215:ALA:HA	1:E:1219:LEU:HB3	1.67	0.76
1:J:3332:ALA:HB1	1:J:3335:MET:HE3	1.66	0.76
1:E:116:MET:HG2	1:E:137:LEU:HB3	1.67	0.76
1:G:2788:HIS:HB3	1:G:2791:LEU:HB2	1.67	0.76
1:B:2788:HIS:HB3	1:B:2791:LEU:HB2	1.67	0.76
3:F:40:ALA:H	3:F:43:LYS:HE3	1.51	0.76
1:J:980:ALA:HB1	1:J:1055:PRO:HG2	1.68	0.75
1:J:1527:MET:HB3	1:J:1540:PHE:HB2	1.68	0.75
1:G:950:LEU:HD13	1:G:970:LEU:HD21	1.69	0.75
1:J:2788:HIS:HB3	1:J:2791:LEU:HB2	1.67	0.75
1:E:950:LEU:HD13	1:E:970:LEU:HD21	1.69	0.75
1:J:950:LEU:HD13	1:J:970:LEU:HD21	1.69	0.75
3:K:40:ALA:H	3:K:43:LYS:HE3	1.51	0.75
1:E:247:TYR:HB2	1:E:374:LYS:HD2	1.69	0.75
1:E:980:ALA:HB1	1:E:1055:PRO:HG2	1.68	0.75
1:B:950:LEU:HD13	1:B:970:LEU:HD21	1.69	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:980:ALA:HB1	1:B:1055:PRO:HG2	1.68	0.75
1:E:251:ALA:O	1:E:255:HIS:ND1	2.20	0.75
1:J:1079:LYS:NZ	1:J:1107:PRO:O	2.20	0.75
3:C:40:ALA:H	3:C:43:LYS:HE3	1.51	0.75
1:J:251:ALA:O	1:J:255:HIS:ND1	2.20	0.74
1:G:2755:ILE:HG22	1:G:2810:LYS:HZ2	1.50	0.74
1:G:1079:LYS:NZ	1:G:1107:PRO:O	2.20	0.74
1:B:1079:LYS:NZ	1:B:1107:PRO:O	2.20	0.74
3:M:40:ALA:H	3:M:43:LYS:HE3	1.51	0.74
1:G:2604:GLU:HG2	1:G:2639:MET:HE2	1.68	0.74
3:K:122:GLN:NE2	3:K:124:THR:OG1	2.21	0.74
1:G:980:ALA:HB1	1:G:1055:PRO:HG2	1.68	0.74
3:M:122:GLN:NE2	3:M:124:THR:OG1	2.21	0.74
1:B:2768:PHE:HB2	1:B:2857:PRO:HD2	1.70	0.74
1:E:2768:PHE:HB2	1:E:2857:PRO:HD2	1.70	0.74
1:G:251:ALA:O	1:G:255:HIS:ND1	2.20	0.74
1:J:2768:PHE:HB2	1:J:2857:PRO:HD2	1.70	0.74
1:G:2768:PHE:HB2	1:G:2857:PRO:HD2	1.70	0.74
1:B:2496:PRO:HG3	1:B:2550:LEU:HD23	1.70	0.74
1:E:1079:LYS:NZ	1:E:1107:PRO:O	2.20	0.73
1:E:2604:GLU:HG2	1:E:2639:MET:HE2	1.68	0.73
1:G:973:SER:HA	1:G:1044:ARG:HH21	1.54	0.73
1:B:251:ALA:O	1:B:255:HIS:ND1	2.20	0.73
1:B:2604:GLU:HG2	1:B:2639:MET:HE2	1.68	0.73
3:F:122:GLN:NE2	3:F:124:THR:OG1	2.21	0.73
1:E:897:ARG:HD3	1:E:905:PRO:HD3	1.70	0.73
1:G:1248:VAL:HG22	1:G:1599:MET:HE1	1.70	0.73
1:E:2496:PRO:HG3	1:E:2550:LEU:HD23	1.70	0.73
1:J:35:LEU:HD22	1:J:189:LEU:HD22	1.71	0.73
1:J:2604:GLU:HG2	1:J:2639:MET:HE2	1.68	0.73
1:B:1248:VAL:HG22	1:B:1599:MET:HE1	1.70	0.73
1:B:4879:MET:HE2	1:E:4580:TYR:H	1.53	0.73
1:E:112:ALA:O	1:E:115:ARG:NH1	2.22	0.73
1:E:973:SER:HA	1:E:1044:ARG:HH21	1.53	0.73
1:J:2496:PRO:HG3	1:J:2550:LEU:HD23	1.70	0.73
1:B:35:LEU:HD22	1:B:189:LEU:HD22	1.71	0.73
1:B:112:ALA:O	1:B:115:ARG:NH1	2.22	0.72
1:B:1708:ARG:NH1	1:B:1836:PHE:O	2.22	0.72
1:G:2496:PRO:HG3	1:G:2550:LEU:HD23	1.70	0.72
1:E:1708:ARG:NH1	1:E:1836:PHE:O	2.22	0.72
3:C:122:GLN:NE2	3:C:124:THR:OG1	2.21	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3324:VAL:HA	1:E:3327:LEU:HD23	1.72	0.72
1:G:35:LEU:HD22	1:G:189:LEU:HD22	1.71	0.72
1:G:2310:CYS:HB3	1:G:2313:LEU:HD23	1.71	0.72
3:C:34:MET:HE1	3:C:95:CYS:HB2	1.69	0.72
1:J:2310:CYS:HB3	1:J:2313:LEU:HD23	1.71	0.72
1:J:3324:VAL:HA	1:J:3327:LEU:HD23	1.72	0.72
3:K:55:ASN:OD1	3:K:71:ARG:NH1	2.23	0.72
1:J:897:ARG:HD3	1:J:905:PRO:HD3	1.71	0.72
1:B:371:VAL:HG12	1:B:373:LYS:H	1.55	0.72
1:B:897:ARG:HD3	1:B:905:PRO:HD3	1.70	0.72
1:G:4580:TYR:H	1:J:4879:MET:HE2	1.55	0.72
1:J:1708:ARG:NH1	1:J:1836:PHE:O	2.22	0.72
1:G:1708:ARG:NH1	1:G:1836:PHE:O	2.22	0.72
1:J:973:SER:HA	1:J:1044:ARG:HH21	1.53	0.72
1:B:164:ARG:HB2	1:B:167:ASP:HB2	1.72	0.71
1:B:3324:VAL:HA	1:B:3327:LEU:HD23	1.72	0.71
1:E:35:LEU:HD22	1:E:189:LEU:HD22	1.71	0.71
1:J:112:ALA:O	1:J:115:ARG:NH1	2.22	0.71
3:F:34:MET:HE1	3:F:95:CYS:HB2	1.71	0.71
1:J:1248:VAL:HG22	1:J:1599:MET:HE1	1.70	0.71
1:G:112:ALA:O	1:G:115:ARG:NH1	2.22	0.71
1:J:164:ARG:HB2	1:J:167:ASP:HB2	1.72	0.71
1:J:1095:VAL:HB	1:J:1199:VAL:HG23	1.73	0.71
1:B:973:SER:HA	1:B:1044:ARG:HH21	1.54	0.71
1:B:3934:TYR:HE1	1:B:3999:MET:SD	2.14	0.71
1:G:164:ARG:HB2	1:G:167:ASP:HB2	1.72	0.71
1:G:1095:VAL:HB	1:G:1199:VAL:HG23	1.73	0.71
1:J:718:GLY:HA3	1:J:737:LEU:HA	1.72	0.71
1:B:1007:TYR:O	1:B:1017:ARG:NH2	2.24	0.71
1:B:4580:TYR:H	1:G:4879:MET:HE2	1.55	0.71
3:F:55:ASN:OD1	3:F:71:ARG:NH1	2.23	0.71
1:E:164:ARG:HB2	1:E:167:ASP:HB2	1.72	0.71
1:E:1248:VAL:HG22	1:E:1599:MET:HE1	1.70	0.71
1:E:4879:MET:HE2	1:J:4580:TYR:H	1.56	0.71
1:G:2595:LEU:HB2	1:G:2600:ARG:HE	1.55	0.71
1:B:891:TRP:HA	1:B:902:ARG:HB3	1.72	0.71
1:B:1095:VAL:HB	1:B:1199:VAL:HG23	1.73	0.71
3:K:34:MET:HE1	3:K:95:CYS:HB2	1.70	0.71
1:E:1095:VAL:HB	1:E:1199:VAL:HG23	1.73	0.71
1:G:246:TYR:CG	1:G:373:LYS:HG3	2.25	0.71
1:E:1007:TYR:O	1:E:1017:ARG:NH2	2.24	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4673:ARG:HH12	1:E:4698:LYS:HB2	1.55	0.71
1:B:4673:ARG:HH12	1:B:4698:LYS:HB2	1.55	0.71
1:E:3934:TYR:HE1	1:E:3999:MET:SD	2.14	0.71
1:E:3981:ALA:HA	1:E:3986:TRP:HZ2	1.55	0.71
1:G:3324:VAL:HA	1:G:3327:LEU:HD23	1.72	0.71
1:B:3695:PRO:HG2	1:B:3700:GLN:HG2	1.73	0.70
1:E:718:GLY:HA3	1:E:737:LEU:HA	1.72	0.70
1:J:2595:LEU:HB2	1:J:2600:ARG:HE	1.55	0.70
3:M:34:MET:HE1	3:M:95:CYS:HB2	1.72	0.70
1:B:2310:CYS:HB3	1:B:2313:LEU:HD23	1.71	0.70
1:E:3695:PRO:HG2	1:E:3700:GLN:HG2	1.74	0.70
1:G:3156:VAL:HG23	1:G:3157:ILE:HG13	1.73	0.70
1:B:718:GLY:HA3	1:B:737:LEU:HA	1.72	0.70
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.56	0.70
1:G:718:GLY:HA3	1:G:737:LEU:HA	1.72	0.70
1:G:4673:ARG:HH12	1:G:4698:LYS:HB2	1.55	0.70
1:J:891:TRP:HA	1:J:902:ARG:HB3	1.72	0.70
1:J:1020:ARG:HG2	1:J:1031:THR:HG21	1.74	0.70
1:J:2970:SER:HA	1:J:2973:PHE:CE2	2.26	0.70
3:C:55:ASN:OD1	3:C:71:ARG:NH1	2.23	0.70
1:E:2310:CYS:HB3	1:E:2313:LEU:HD23	1.71	0.70
1:E:891:TRP:HA	1:E:902:ARG:HB3	1.72	0.70
1:G:3934:TYR:HE1	1:G:3999:MET:SD	2.14	0.70
1:B:3362:ILE:HG22	1:B:3437:MET:HE1	1.74	0.70
1:E:3362:ILE:HG22	1:E:3437:MET:HE1	1.74	0.70
1:G:3981:ALA:HA	1:G:3986:TRP:HZ2	1.55	0.70
1:J:1444:GLU:HG3	1:J:1557:THR:HG21	1.73	0.70
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.26	0.70
1:G:1020:ARG:HG2	1:G:1031:THR:HG21	1.73	0.70
1:J:3156:VAL:HG23	1:J:3157:ILE:HG13	1.73	0.70
1:J:3695:PRO:HG2	1:J:3700:GLN:HG2	1.73	0.70
1:B:1444:GLU:HG3	1:B:1557:THR:HG21	1.73	0.70
1:G:1007:TYR:O	1:G:1017:ARG:NH2	2.24	0.70
1:G:3695:PRO:HG2	1:G:3700:GLN:HG2	1.73	0.70
1:J:1007:TYR:O	1:J:1017:ARG:NH2	2.24	0.70
1:J:2673:HIS:HE1	1:J:2677:LYS:HE2	1.56	0.70
1:J:3934:TYR:HE1	1:J:3999:MET:SD	2.14	0.70
1:E:2673:HIS:HE1	1:E:2677:LYS:HE2	1.56	0.69
1:E:2970:SER:HA	1:E:2973:PHE:CE2	2.26	0.69
1:E:3162:GLN:HE21	1:E:3218:VAL:HG13	1.58	0.69
1:G:2970:SER:HA	1:G:2973:PHE:CE2	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:891:TRP:HA	1:G:902:ARG:HB3	1.72	0.69
1:G:3362:ILE:HG22	1:G:3437:MET:HE1	1.74	0.69
1:B:1020:ARG:HG2	1:B:1031:THR:HG21	1.74	0.69
1:B:1870:VAL:HG21	1:B:2097:LEU:HD13	1.75	0.69
1:B:3162:GLN:HE21	1:B:3218:VAL:HG13	1.58	0.69
1:J:3766:GLN:HA	1:J:3769:ARG:HE	1.58	0.69
1:E:102:LEU:HD12	1:E:160:GLY:HA2	1.75	0.69
1:G:1444:GLU:HG3	1:G:1557:THR:HG21	1.73	0.69
1:J:2454:ARG:HD2	1:J:2458:ARG:HH21	1.58	0.69
1:J:4673:ARG:HH12	1:J:4698:LYS:HB2	1.55	0.69
1:E:2754:PHE:HE1	1:E:2933:ASN:HD21	1.41	0.69
1:B:2668:SER:HB3	1:B:2671:GLU:HG3	1.75	0.69
1:E:2454:ARG:HD2	1:E:2458:ARG:HH21	1.58	0.69
1:E:4122:MET:HE3	1:E:4123:ILE:H	1.58	0.69
1:B:102:LEU:HD12	1:B:160:GLY:HA2	1.75	0.69
1:B:2595:LEU:HB2	1:B:2600:ARG:HE	1.55	0.69
1:B:3413:ILE:HG23	1:B:3516:LYS:HE2	1.75	0.69
1:E:1020:ARG:HG2	1:E:1031:THR:HG21	1.73	0.69
1:E:1444:GLU:HG3	1:E:1557:THR:HG21	1.73	0.69
1:E:2595:LEU:HB2	1:E:2600:ARG:HE	1.56	0.69
1:E:3413:ILE:HG23	1:E:3516:LYS:HE2	1.75	0.69
1:G:2668:SER:HB3	1:G:2671:GLU:HG3	1.75	0.69
1:J:3162:GLN:HE21	1:J:3218:VAL:HG13	1.58	0.69
1:J:3362:ILE:HG22	1:J:3437:MET:HE1	1.74	0.69
1:J:3981:ALA:HA	1:J:3986:TRP:HZ2	1.56	0.69
1:B:229:GLU:HA	1:B:249:GLY:HA3	1.75	0.69
1:G:2754:PHE:HE1	1:G:2933:ASN:HD21	1.41	0.69
1:J:70:GLU:O	1:J:108:LEU:HB3	1.93	0.69
1:B:633:LEU:HB3	1:B:1639:LEU:HD11	1.75	0.69
1:B:2673:HIS:HE1	1:B:2677:LYS:HE2	1.56	0.69
1:G:2454:ARG:HD2	1:G:2458:ARG:HH21	1.58	0.69
1:G:2673:HIS:HE1	1:G:2677:LYS:HE2	1.56	0.69
1:G:3162:GLN:HE21	1:G:3218:VAL:HG13	1.58	0.69
1:B:3156:VAL:HG23	1:B:3157:ILE:HG13	1.73	0.68
1:E:70:GLU:O	1:E:108:LEU:HB3	1.93	0.68
3:C:105:ASN:HD21	3:C:111:ASN:HB2	1.58	0.68
1:B:2454:ARG:HD2	1:B:2458:ARG:HH21	1.58	0.68
1:E:2668:SER:HB3	1:E:2671:GLU:HG3	1.75	0.68
1:G:102:LEU:HD12	1:G:160:GLY:HA2	1.75	0.68
1:G:633:LEU:HB3	1:G:1639:LEU:HD11	1.75	0.68
1:G:758:ARG:HH11	1:G:761:GLY:HA2	1.59	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1229:ASN:HB3	1:B:1827:ARG:HG3	1.75	0.68
1:G:1870:VAL:HG21	1:G:2097:LEU:HD13	1.75	0.68
1:J:2754:PHE:HE1	1:J:2933:ASN:HD21	1.41	0.68
1:B:758:ARG:HH11	1:B:761:GLY:HA2	1.59	0.68
1:E:3766:GLN:HA	1:E:3769:ARG:HE	1.58	0.68
1:G:229:GLU:HA	1:G:249:GLY:HA3	1.75	0.68
1:G:3413:ILE:HG23	1:G:3516:LYS:HE2	1.75	0.68
1:G:3416:VAL:O	1:G:3420:ARG:HB2	1.94	0.68
1:J:855:PRO:HG3	1:J:998:ARG:HD2	1.76	0.68
1:J:2668:SER:HB3	1:J:2671:GLU:HG3	1.75	0.68
1:E:3156:VAL:HG23	1:E:3157:ILE:HG13	1.73	0.68
1:G:855:PRO:HG3	1:G:998:ARG:HD2	1.76	0.68
1:G:3766:GLN:HA	1:G:3769:ARG:HE	1.58	0.68
1:G:4122:MET:HE3	1:G:4123:ILE:H	1.58	0.68
1:J:102:LEU:HD12	1:J:160:GLY:HA2	1.75	0.68
3:K:105:ASN:HD21	3:K:111:ASN:HB2	1.59	0.68
1:B:2616:PRO:HA	1:B:2619:LEU:HB3	1.75	0.68
1:G:70:GLU:O	1:G:108:LEU:HB3	1.93	0.68
1:G:371:VAL:HG12	1:G:373:LYS:H	1.59	0.68
1:J:758:ARG:HH11	1:J:761:GLY:HA2	1.59	0.68
1:E:223:PHE:HB2	1:E:389:PHE:HB3	1.76	0.68
1:G:2620:GLN:HA	1:G:2623:LEU:HD12	1.76	0.68
1:J:1870:VAL:HG21	1:J:2097:LEU:HD13	1.75	0.68
1:J:2616:PRO:HA	1:J:2619:LEU:HB3	1.75	0.68
1:J:3416:VAL:O	1:J:3420:ARG:HB2	1.94	0.68
1:J:4122:MET:HE3	1:J:4123:ILE:H	1.58	0.68
1:B:670:GLU:HB2	1:B:788:LYS:HB3	1.76	0.68
1:B:4122:MET:HE3	1:B:4123:ILE:H	1.58	0.68
1:J:247:TYR:HE2	1:J:359:TYR:HA	1.58	0.68
3:F:105:ASN:HD21	3:F:111:ASN:HB2	1.59	0.68
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	1.76	0.68
1:E:2620:GLN:HA	1:E:2623:LEU:HD12	1.76	0.68
1:G:223:PHE:HB2	1:G:389:PHE:HB3	1.76	0.68
1:G:959:TYR:HB2	1:G:966:LYS:HD3	1.76	0.68
1:J:1229:ASN:HB3	1:J:1827:ARG:HG3	1.75	0.68
1:B:2754:PHE:HE1	1:B:2933:ASN:HD21	1.41	0.67
1:E:229:GLU:HA	1:E:249:GLY:HA3	1.75	0.67
1:E:2616:PRO:HA	1:E:2619:LEU:HB3	1.75	0.67
1:G:670:GLU:HB2	1:G:788:LYS:HB3	1.76	0.67
1:J:3413:ILE:HG23	1:J:3516:LYS:HE2	1.75	0.67
1:B:70:GLU:O	1:B:108:LEU:HB3	1.93	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4097:MET:HE1	1:G:4103:PHE:HB2	1.77	0.67
1:B:223:PHE:HB2	1:B:389:PHE:HB3	1.76	0.67
1:J:670:GLU:HB2	1:J:788:LYS:HB3	1.76	0.67
1:E:1229:ASN:HB3	1:E:1827:ARG:HG3	1.75	0.67
1:J:223:PHE:HB2	1:J:389:PHE:HB3	1.76	0.67
1:B:4097:MET:HE1	1:B:4103:PHE:HB2	1.77	0.67
1:E:633:LEU:HB3	1:E:1639:LEU:HD11	1.75	0.67
1:E:1870:VAL:HG21	1:E:2097:LEU:HD13	1.75	0.67
1:J:248:GLU:HB3	1:J:373:LYS:HA	1.75	0.67
1:J:959:TYR:HB2	1:J:966:LYS:HD3	1.76	0.67
3:K:15:GLY:H	3:K:85:LEU:HB2	1.60	0.67
1:B:3766:GLN:HA	1:B:3769:ARG:HE	1.58	0.67
1:E:758:ARG:HH11	1:E:761:GLY:HA2	1.59	0.67
1:J:4097:MET:HE1	1:J:4103:PHE:HB2	1.77	0.67
1:B:799:GLU:HB2	1:B:1623:ARG:HH12	1.60	0.67
1:G:1023:PRO:HD2	1:G:1026:LEU:HD22	1.77	0.67
1:G:2616:PRO:HA	1:G:2619:LEU:HB3	1.75	0.67
1:B:959:TYR:HB2	1:B:966:LYS:HD3	1.76	0.67
1:J:1023:PRO:HD2	1:J:1026:LEU:HD22	1.77	0.67
1:B:1023:PRO:HD2	1:B:1026:LEU:HD22	1.77	0.67
1:G:1229:ASN:HB3	1:G:1827:ARG:HG3	1.75	0.67
1:J:229:GLU:HA	1:J:249:GLY:HA3	1.75	0.67
1:J:633:LEU:HB3	1:J:1639:LEU:HD11	1.75	0.67
1:J:3962:PHE:HA	1:J:3965:LEU:HD12	1.76	0.67
1:B:3416:VAL:O	1:B:3420:ARG:HB2	1.94	0.67
1:E:1023:PRO:HD2	1:E:1026:LEU:HD22	1.77	0.67
3:F:15:GLY:H	3:F:85:LEU:HB2	1.60	0.67
1:E:855:PRO:HG3	1:E:998:ARG:HD2	1.76	0.66
1:E:2673:HIS:CE1	1:E:2677:LYS:HE2	2.31	0.66
1:E:3416:VAL:O	1:E:3420:ARG:HB2	1.94	0.66
1:J:247:TYR:HB2	1:J:374:LYS:HB2	1.77	0.66
1:E:670:GLU:HB2	1:E:788:LYS:HB3	1.76	0.66
1:G:4003:LEU:HD13	1:G:4013:LEU:HA	1.78	0.66
1:E:4097:MET:HE1	1:E:4103:PHE:HB2	1.77	0.66
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.28	0.66
1:J:2620:GLN:HA	1:J:2623:LEU:HD12	1.76	0.66
1:B:4003:LEU:HD13	1:B:4013:LEU:HA	1.78	0.66
1:E:3962:PHE:HA	1:E:3965:LEU:HD12	1.78	0.66
3:C:15:GLY:H	3:C:85:LEU:HB2	1.60	0.66
1:G:799:GLU:HB2	1:G:1623:ARG:HH12	1.60	0.66
3:C:34:MET:HG2	3:C:78:VAL:HG21	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:855:PRO:HG3	1:B:998:ARG:HD2	1.76	0.66
1:B:2673:HIS:CE1	1:B:2677:LYS:HE2	2.31	0.66
1:G:2673:HIS:CE1	1:G:2677:LYS:HE2	2.31	0.66
1:G:3594:ARG:NH2	1:G:3597:GLN:OE1	2.29	0.66
1:B:1519:LEU:HD11	1:B:1572:ILE:HD13	1.78	0.66
1:E:799:GLU:HB2	1:E:1623:ARG:HH12	1.60	0.66
1:J:1256:GLU:HB2	1:J:1275:ARG:HE	1.61	0.66
1:B:548:VAL:HG21	1:B:582:HIS:HD2	1.61	0.66
1:J:799:GLU:HB2	1:J:1623:ARG:HH12	1.60	0.66
1:J:2673:HIS:CE1	1:J:2677:LYS:HE2	2.31	0.66
1:B:3962:PHE:HA	1:B:3965:LEU:HD12	1.77	0.66
1:E:195:PHE:HZ	1:J:2359:ARG:HG3	1.61	0.66
1:E:959:TYR:HB2	1:E:966:LYS:HD3	1.76	0.66
1:G:1679:ASN:ND2	1:G:1797:ARG:O	2.29	0.66
1:G:2624:ARG:NH1	1:G:2910:THR:O	2.29	0.66
1:E:548:VAL:HG21	1:E:582:HIS:HD2	1.61	0.66
1:G:858:THR:HG21	1:G:931:THR:HG22	1.78	0.66
1:J:3923:LEU:HD22	1:J:3965:LEU:HD11	1.79	0.66
1:G:3962:PHE:HA	1:G:3965:LEU:HD12	1.77	0.65
1:B:246:TYR:HB3	1:B:373:LYS:O	1.95	0.65
1:B:2359:ARG:HG3	1:G:195:PHE:HZ	1.62	0.65
1:G:1256:GLU:HB2	1:G:1275:ARG:HE	1.61	0.65
1:J:663:TYR:OH	1:J:758:ARG:NH2	2.30	0.65
3:M:15:GLY:H	3:M:85:LEU:HB2	1.60	0.65
1:E:2624:ARG:NH1	1:E:2910:THR:O	2.29	0.65
1:E:4061:PHE:HA	1:E:4064:MET:HE3	1.78	0.65
1:G:590:LEU:O	1:G:1594:ARG:NH2	2.29	0.65
1:G:663:TYR:OH	1:G:758:ARG:NH2	2.30	0.65
1:J:4003:LEU:HD13	1:J:4013:LEU:HA	1.78	0.65
1:B:3923:LEU:HD22	1:B:3965:LEU:HD11	1.79	0.65
1:E:479:GLN:HE21	1:E:539:LEU:HD11	1.62	0.65
1:E:953:THR:HB	1:E:969:PRO:HG2	1.78	0.65
1:G:548:VAL:HG21	1:G:582:HIS:HD2	1.61	0.65
1:G:1519:LEU:HD11	1:G:1572:ILE:HD13	1.78	0.65
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.31	0.65
1:G:3923:LEU:HD22	1:G:3965:LEU:HD11	1.79	0.65
1:J:4061:PHE:HA	1:J:4064:MET:HE3	1.78	0.65
1:E:858:THR:HG21	1:E:931:THR:HG22	1.78	0.65
1:E:904:HIS:HD2	1:E:907:LEU:H	1.45	0.65
1:E:4003:LEU:HD13	1:E:4013:LEU:HA	1.78	0.65
1:G:144:GLU:HG3	1:G:175:SER:HB3	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2519:LEU:HA	1:J:2522:LEU:HD12	1.79	0.65
1:J:3594:ARG:NH2	1:J:3597:GLN:OE1	2.29	0.65
1:B:4546:VAL:HG22	1:B:4550:LYS:HE3	1.78	0.65
1:E:3594:ARG:NH2	1:E:3597:GLN:OE1	2.29	0.65
1:G:3965:LEU:HA	1:G:3968:TYR:CD2	2.31	0.65
1:J:590:LEU:O	1:J:1594:ARG:NH2	2.29	0.65
1:J:2624:ARG:NH1	1:J:2910:THR:O	2.29	0.65
2:I:68:LEU:HD13	2:I:106:LEU:HG	1.79	0.65
1:B:479:GLN:HE21	1:B:539:LEU:HD11	1.62	0.65
1:E:590:LEU:O	1:E:1594:ARG:NH2	2.29	0.65
1:E:663:TYR:OH	1:E:758:ARG:NH2	2.29	0.65
1:J:2883:HIS:NE2	1:J:2906:VAL:O	2.28	0.65
2:H:68:LEU:HD13	2:H:106:LEU:HG	1.79	0.65
3:K:34:MET:HG2	3:K:78:VAL:HG21	1.77	0.65
1:B:663:TYR:OH	1:B:758:ARG:NH2	2.30	0.65
1:B:2883:HIS:NE2	1:B:2906:VAL:O	2.28	0.65
1:E:1679:ASN:ND2	1:E:1797:ARG:O	2.29	0.65
1:G:479:GLN:HE21	1:G:539:LEU:HD11	1.62	0.65
1:J:904:HIS:HD2	1:J:907:LEU:H	1.45	0.65
2:A:68:LEU:HD13	2:A:106:LEU:HG	1.79	0.65
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.31	0.65
1:B:590:LEU:O	1:B:1594:ARG:NH2	2.29	0.65
1:B:2128:TYR:OH	1:B:3672:ARG:NH1	2.30	0.65
1:B:3594:ARG:NH2	1:B:3597:GLN:OE1	2.29	0.65
1:G:4546:VAL:HG22	1:G:4550:LYS:HE3	1.78	0.65
1:J:1519:LEU:HD11	1:J:1572:ILE:HD13	1.78	0.65
1:J:3965:LEU:HA	1:J:3968:TYR:CD2	2.32	0.65
1:E:1154:ASP:HB3	1:E:1223:PHE:CE1	2.31	0.64
1:G:1617:THR:HG22	1:G:1628:VAL:HG13	1.79	0.64
1:J:858:THR:HG21	1:J:931:THR:HG22	1.78	0.64
1:J:1679:ASN:ND2	1:J:1797:ARG:O	2.29	0.64
1:J:2746:ILE:HA	1:J:2814:LYS:HE3	1.79	0.64
1:B:953:THR:HB	1:B:969:PRO:HG2	1.78	0.64
1:B:1256:GLU:HB2	1:B:1275:ARG:HE	1.61	0.64
1:E:1256:GLU:HB2	1:E:1275:ARG:HE	1.61	0.64
1:E:2519:LEU:HA	1:E:2522:LEU:HD12	1.79	0.64
1:J:2128:TYR:OH	1:J:3672:ARG:NH1	2.30	0.64
1:J:4546:VAL:HG22	1:J:4550:LYS:HE3	1.78	0.64
2:D:68:LEU:HD13	2:D:106:LEU:HG	1.79	0.64
1:B:1804:LEU:HD12	1:B:1853:ILE:HG13	1.80	0.64
1:E:601:ASP:OD1	1:E:1668:ARG:NH2	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1617:THR:HG22	1:E:1628:VAL:HG13	1.79	0.64
1:G:601:ASP:OD1	1:G:1668:ARG:NH2	2.31	0.64
1:G:2519:LEU:HA	1:G:2522:LEU:HD12	1.79	0.64
1:G:2624:ARG:HG3	1:G:2625:ARG:HE	1.62	0.64
1:J:479:GLN:HE21	1:J:539:LEU:HD11	1.62	0.64
1:J:548:VAL:HG21	1:J:582:HIS:HD2	1.61	0.64
1:B:144:GLU:HG3	1:B:175:SER:HB3	1.79	0.64
1:B:365:LYS:HE2	1:B:369:LEU:HD21	1.79	0.64
1:E:2128:TYR:OH	1:E:3672:ARG:NH1	2.30	0.64
1:E:2883:HIS:NE2	1:E:2906:VAL:O	2.28	0.64
2:A:30:LEU:HD11	2:A:92:PRO:HD2	1.79	0.64
1:B:669:ASP:HA	1:B:741:GLU:H	1.63	0.64
1:E:2591:ARG:NH1	1:E:2636:PHE:HB2	2.13	0.64
1:G:2746:ILE:HA	1:G:2814:LYS:HE3	1.79	0.64
2:I:30:LEU:HD11	2:I:92:PRO:HD2	1.79	0.64
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.29	0.64
1:E:400:ALA:HA	1:E:403:MET:SD	2.38	0.64
1:E:669:ASP:HA	1:E:741:GLU:H	1.63	0.64
1:E:2624:ARG:HG3	1:E:2625:ARG:HE	1.62	0.64
1:E:4546:VAL:HG22	1:E:4550:LYS:HE3	1.78	0.64
1:G:365:LYS:HE2	1:G:369:LEU:HD21	1.80	0.64
1:G:1804:LEU:HD12	1:G:1853:ILE:HG13	1.80	0.64
2:H:30:LEU:HD11	2:H:92:PRO:HD2	1.79	0.64
1:B:858:THR:HG21	1:B:931:THR:HG22	1.78	0.64
1:B:2591:ARG:NH1	1:B:2636:PHE:HB2	2.13	0.64
1:B:2710:LEU:HD12	1:B:2711:PRO:HD2	1.80	0.64
1:B:4072:VAL:O	1:B:4078:GLN:NE2	2.31	0.64
1:E:788:LYS:HD3	1:E:1629:GLN:HB3	1.80	0.64
1:G:400:ALA:HA	1:G:403:MET:SD	2.38	0.64
1:G:1101:ARG:HH12	1:G:1114:GLU:HB3	1.63	0.64
1:G:2591:ARG:HH11	1:G:2636:PHE:HB2	1.63	0.64
1:J:144:GLU:HG3	1:J:175:SER:HB3	1.79	0.64
1:J:601:ASP:OD1	1:J:1668:ARG:NH2	2.31	0.64
1:J:953:THR:HB	1:J:969:PRO:HG2	1.78	0.64
1:J:2624:ARG:HG3	1:J:2625:ARG:HE	1.62	0.64
1:J:4545:GLU:OE1	1:J:4548:ARG:NE	2.27	0.64
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.31	0.64
1:B:788:LYS:HD3	1:B:1629:GLN:HB3	1.80	0.64
1:E:144:GLU:HG3	1:E:175:SER:HB3	1.79	0.64
1:G:953:THR:HB	1:G:969:PRO:HG2	1.78	0.64
1:J:294:THR:HG23	1:J:297:GLN:H	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:34:MET:HG2	3:M:78:VAL:HG21	1.79	0.64
1:B:195:PHE:HZ	1:E:2359:ARG:HG3	1.63	0.64
1:B:904:HIS:HD2	1:B:907:LEU:H	1.45	0.64
1:B:2624:ARG:HG3	1:B:2625:ARG:HE	1.62	0.64
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.32	0.64
1:E:3048:ALA:O	1:E:3052:HIS:ND1	2.31	0.64
1:G:669:ASP:HA	1:G:741:GLU:H	1.63	0.64
1:G:1249:PRO:HG2	1:G:1252:HIS:HB2	1.80	0.64
1:J:360:ALA:HA	1:J:377:ILE:HD13	1.78	0.64
1:B:3048:ALA:O	1:B:3052:HIS:ND1	2.31	0.64
1:E:247:TYR:HE2	1:E:359:TYR:HA	1.62	0.64
1:E:3923:LEU:HD22	1:E:3965:LEU:HD11	1.80	0.64
1:G:788:LYS:HD3	1:G:1629:GLN:HB3	1.80	0.64
2:D:30:LEU:HD11	2:D:92:PRO:HD2	1.79	0.64
1:B:675:LEU:HG	1:B:676:THR:HG23	1.80	0.63
1:B:2624:ARG:NH1	1:B:2910:THR:O	2.29	0.63
1:B:2746:ILE:HA	1:B:2814:LYS:HE3	1.79	0.63
1:G:1154:ASP:HB3	1:G:1223:PHE:CE1	2.31	0.63
1:J:1617:THR:HG22	1:J:1628:VAL:HG13	1.79	0.63
1:J:2813:LEU:HA	1:J:2816:MET:HG3	1.80	0.63
1:B:659:TYR:HB2	1:B:1017:ARG:HH22	1.63	0.63
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.31	0.63
1:B:4061:PHE:HA	1:B:4064:MET:HE3	1.79	0.63
1:E:2684:ASP:O	1:E:2688:HIS:ND1	2.31	0.63
1:G:4061:PHE:HA	1:G:4064:MET:HE3	1.79	0.63
1:J:669:ASP:HA	1:J:741:GLU:H	1.63	0.63
1:J:2591:ARG:HH11	1:J:2636:PHE:HB2	1.63	0.63
1:B:294:THR:HG23	1:B:297:GLN:H	1.63	0.63
1:B:2591:ARG:HH11	1:B:2636:PHE:HB2	1.63	0.63
1:E:1519:LEU:HD11	1:E:1572:ILE:HD13	1.78	0.63
1:G:2128:TYR:OH	1:G:3672:ARG:NH1	2.30	0.63
1:G:2813:LEU:HA	1:G:2816:MET:HG3	1.80	0.63
1:J:1154:ASP:HB3	1:J:1223:PHE:CE1	2.31	0.63
3:C:30:SER:HB3	3:C:99:ARG:HB3	1.79	0.63
3:F:34:MET:HG2	3:F:78:VAL:HG21	1.79	0.63
1:B:952:LYS:HA	1:B:970:LEU:HA	1.81	0.63
1:B:1617:THR:HG22	1:B:1628:VAL:HG13	1.79	0.63
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.79	0.63
1:E:294:THR:HG23	1:E:297:GLN:H	1.63	0.63
1:G:294:THR:HG23	1:G:297:GLN:H	1.63	0.63
1:G:2710:LEU:HD12	1:G:2711:PRO:HD2	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2651:CYS:HB3	1:J:2654:TYR:HB3	1.81	0.63
1:E:82:LEU:HD11	1:E:144:GLU:HB3	1.81	0.63
1:E:659:TYR:HB2	1:E:1017:ARG:HH22	1.63	0.63
1:E:2591:ARG:HH11	1:E:2636:PHE:HB2	1.63	0.63
1:E:2651:CYS:HB3	1:E:2654:TYR:HB3	1.81	0.63
1:J:246:TYR:CD1	1:J:375:LYS:HA	2.33	0.63
1:J:952:LYS:HA	1:J:970:LEU:HA	1.81	0.63
1:J:2642:LYS:HE3	1:J:2646:ASN:HD21	1.63	0.63
1:J:2684:ASP:O	1:J:2688:HIS:ND1	2.31	0.63
1:B:246:TYR:HD1	1:B:375:LYS:HA	1.63	0.63
1:B:400:ALA:HA	1:B:403:MET:SD	2.38	0.63
1:B:1101:ARG:HH12	1:B:1114:GLU:HB3	1.63	0.63
1:E:248:GLU:HB3	1:E:373:LYS:HA	1.79	0.63
1:E:358:THR:HG1	1:E:383:HIS:HD1	1.45	0.63
1:E:952:LYS:HA	1:E:970:LEU:HA	1.81	0.63
1:E:2642:LYS:HE3	1:E:2646:ASN:HD21	1.64	0.63
1:E:2710:LEU:HD12	1:E:2711:PRO:HD2	1.80	0.63
1:J:82:LEU:HD11	1:J:144:GLU:HB3	1.81	0.63
1:J:659:TYR:HB2	1:J:1017:ARG:HH22	1.63	0.63
1:J:788:LYS:HD3	1:J:1629:GLN:HB3	1.80	0.63
1:J:4072:VAL:O	1:J:4078:GLN:NE2	2.31	0.63
1:G:2591:ARG:NH1	1:G:2636:PHE:HB2	2.13	0.63
1:G:3048:ALA:O	1:G:3052:HIS:ND1	2.31	0.63
1:J:4023:MET:O	1:J:4027:LEU:HG	1.99	0.63
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.34	0.63
1:E:1179:PHE:HB2	1:E:1182:ILE:HD11	1.81	0.63
1:G:952:LYS:HA	1:G:970:LEU:HA	1.81	0.63
1:G:2359:ARG:HG3	1:J:195:PHE:HZ	1.62	0.63
1:G:4072:VAL:O	1:G:4078:GLN:NE2	2.31	0.63
1:J:400:ALA:HA	1:J:403:MET:SD	2.38	0.63
1:J:1249:PRO:HG2	1:J:1252:HIS:HB2	1.80	0.63
1:J:2591:ARG:NH1	1:J:2636:PHE:HB2	2.13	0.63
1:G:659:TYR:HB2	1:G:1017:ARG:HH22	1.63	0.63
1:G:2684:ASP:O	1:G:2688:HIS:ND1	2.31	0.63
1:J:1101:ARG:HH12	1:J:1114:GLU:HB3	1.63	0.63
1:J:1804:LEU:HD12	1:J:1853:ILE:HG13	1.80	0.63
1:J:3645:PRO:HD2	1:J:3648:ARG:HE	1.64	0.63
1:E:1249:PRO:HG2	1:E:1252:HIS:HB2	1.80	0.62
1:E:1804:LEU:HD12	1:E:1853:ILE:HG13	1.80	0.62
1:E:4127:GLU:OE1	1:E:4131:ARG:NH2	2.32	0.62
1:G:4023:MET:O	1:G:4027:LEU:HG	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:365:LYS:HE2	1:J:369:LEU:HD21	1.79	0.62
1:J:1155:LEU:HD22	1:J:1184:ILE:HG12	1.81	0.62
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.34	0.62
1:B:4545:GLU:OE1	1:B:4548:ARG:NE	2.27	0.62
1:G:629:ARG:HH21	2:H:90:VAL:HG13	1.63	0.62
1:G:897:ARG:HH22	3:M:104:TYR:HB3	1.63	0.62
1:J:675:LEU:HG	1:J:676:THR:HG23	1.80	0.62
1:J:1179:PHE:HB2	1:J:1182:ILE:HD11	1.80	0.62
3:C:11:LEU:HD13	3:C:124:THR:HB	1.81	0.62
3:M:11:LEU:HD13	3:M:124:THR:HB	1.81	0.62
1:B:2651:CYS:HB3	1:B:2654:TYR:HB3	1.81	0.62
1:E:2746:ILE:HA	1:E:2814:LYS:HE3	1.79	0.62
1:J:2710:LEU:HD12	1:J:2711:PRO:HD2	1.80	0.62
1:B:629:ARG:HH21	2:A:90:VAL:HG13	1.65	0.62
1:E:3645:PRO:HD2	1:E:3648:ARG:HE	1.64	0.62
1:G:3645:PRO:HD2	1:G:3648:ARG:HE	1.64	0.62
1:J:1087:ARG:HB3	1:J:1223:PHE:CD1	2.34	0.62
1:J:2599:GLN:O	1:J:2603:ILE:HG12	2.00	0.62
1:J:3048:ALA:O	1:J:3052:HIS:ND1	2.31	0.62
1:B:1179:PHE:HB2	1:B:1182:ILE:HD11	1.81	0.62
1:B:1249:PRO:HG2	1:B:1252:HIS:HB2	1.80	0.62
1:E:1101:ARG:HH12	1:E:1114:GLU:HB3	1.63	0.62
1:E:1155:LEU:HD22	1:E:1184:ILE:HG12	1.81	0.62
1:E:2599:GLN:O	1:E:2603:ILE:HG12	2.00	0.62
1:E:4072:VAL:O	1:E:4078:GLN:NE2	2.31	0.62
1:E:675:LEU:HG	1:E:676:THR:HG23	1.80	0.62
1:G:182:LEU:HD11	1:G:189:LEU:HB3	1.82	0.62
1:G:1155:LEU:HD22	1:G:1184:ILE:HG12	1.81	0.62
1:G:1179:PHE:HB2	1:G:1182:ILE:HD11	1.80	0.62
1:G:2642:LYS:HE3	1:G:2646:ASN:HD21	1.64	0.62
3:F:11:LEU:HD13	3:F:124:THR:HB	1.81	0.62
1:E:2813:LEU:HA	1:E:2816:MET:HG3	1.80	0.62
1:E:4023:MET:O	1:E:4027:LEU:HG	1.99	0.62
3:M:51:ILE:HD13	3:M:71:ARG:HG2	1.81	0.62
1:G:2599:GLN:O	1:G:2603:ILE:HG12	2.00	0.62
1:B:2599:GLN:O	1:B:2603:ILE:HG12	2.00	0.62
1:B:2642:LYS:HE3	1:B:2646:ASN:HD21	1.64	0.62
1:B:3414:ARG:NH1	1:B:3418:ASN:OD1	2.32	0.62
1:E:2747:ILE:HD12	1:E:2817:ILE:HD13	1.82	0.62
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.34	0.62
1:G:2651:CYS:HB3	1:G:2654:TYR:HB3	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2813:LEU:HA	1:B:2816:MET:HG3	1.80	0.62
1:B:3645:PRO:HD2	1:B:3648:ARG:HE	1.64	0.62
1:B:4023:MET:O	1:B:4027:LEU:HG	1.99	0.62
1:E:917:GLU:CD	3:F:101:PRO:HB2	2.25	0.62
1:G:675:LEU:HG	1:G:676:THR:HG23	1.80	0.62
1:B:4090:LYS:HE2	1:B:4112:LEU:HD22	1.82	0.61
1:E:3457:ASN:HA	1:E:3460:VAL:HG12	1.82	0.61
1:G:2580:ASP:OD2	1:G:2621:HIS:ND1	2.33	0.61
1:J:182:LEU:HD11	1:J:189:LEU:HB3	1.82	0.61
1:J:2747:ILE:HD12	1:J:2817:ILE:HD13	1.82	0.61
3:F:30:SER:HB3	3:F:99:ARG:HB3	1.82	0.61
1:B:1154:ASP:HB3	1:B:1223:PHE:CE1	2.31	0.61
1:B:3187:ARG:HG3	1:B:3188:PRO:HD3	1.82	0.61
1:G:3457:ASN:HA	1:G:3460:VAL:HG12	1.82	0.61
1:J:2580:ASP:OD2	1:J:2621:HIS:ND1	2.33	0.61
1:B:21:VAL:HG13	1:B:205:ILE:HB	1.83	0.61
1:B:3145:GLN:HB3	1:B:3196:ARG:HD2	1.83	0.61
3:K:11:LEU:HD13	3:K:124:THR:HB	1.81	0.61
3:K:30:SER:HB3	3:K:99:ARG:HB3	1.81	0.61
1:B:1155:LEU:HD22	1:B:1184:ILE:HG12	1.81	0.61
1:B:2202:GLY:HA2	1:B:2204:HIS:CE1	2.36	0.61
1:E:3187:ARG:HG3	1:E:3188:PRO:HD3	1.82	0.61
1:E:3877:ASP:HB3	1:E:3880:PHE:HB3	1.82	0.61
1:E:4823:LEU:HD23	1:E:4826:ILE:HD12	1.82	0.61
1:G:21:VAL:HG13	1:G:205:ILE:HB	1.83	0.61
1:G:2202:GLY:HA2	1:G:2204:HIS:CE1	2.36	0.61
1:G:4088:ILE:O	1:G:4122:MET:HB3	2.01	0.61
1:B:182:LEU:HD11	1:B:189:LEU:HB3	1.82	0.61
1:B:3457:ASN:HA	1:B:3460:VAL:HG12	1.82	0.61
1:E:3414:ARG:NH1	1:E:3418:ASN:OD1	2.32	0.61
1:G:4090:LYS:HE2	1:G:4112:LEU:HD22	1.82	0.61
1:J:1170:MET:HE1	1:J:1176:GLU:HG3	1.83	0.61
1:J:1442:GLY:H	1:J:1509:ILE:HG12	1.66	0.61
1:B:4823:LEU:HD23	1:B:4826:ILE:HD12	1.82	0.61
1:B:4892:ARG:NH2	1:G:4918:ILE:HD13	2.16	0.61
1:E:365:LYS:HE2	1:E:369:LEU:HD21	1.82	0.61
1:E:2580:ASP:OD2	1:E:2621:HIS:ND1	2.33	0.61
1:G:82:LEU:HD11	1:G:144:GLU:HB3	1.81	0.61
1:G:3145:GLN:HB3	1:G:3196:ARG:HD2	1.83	0.61
1:G:3877:ASP:HB3	1:G:3880:PHE:HB3	1.82	0.61
1:B:2964:LEU:O	1:B:2967:MET:HG3	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4545:GLU:OE1	1:G:4548:ARG:NE	2.27	0.61
1:J:3414:ARG:NH1	1:J:3418:ASN:OD1	2.32	0.61
1:B:82:LEU:HD11	1:B:144:GLU:HB3	1.81	0.61
1:E:21:VAL:HG13	1:E:205:ILE:HB	1.83	0.61
1:J:3457:ASN:HA	1:J:3460:VAL:HG12	1.82	0.61
1:J:4127:GLU:OE1	1:J:4131:ARG:NH2	2.32	0.61
1:B:2793:PRO:HA	1:B:2855:TYR:HB2	1.83	0.61
1:B:4088:ILE:O	1:B:4122:MET:HB3	2.01	0.61
1:E:2418:LEU:O	1:E:2422:ILE:HG12	2.01	0.61
1:G:246:TYR:CD1	1:G:375:LYS:HA	2.36	0.61
1:J:21:VAL:HG13	1:J:205:ILE:HB	1.83	0.61
1:J:3187:ARG:HG3	1:J:3188:PRO:HD3	1.82	0.61
1:B:2881:ASN:HA	1:B:2884:ASN:ND2	2.16	0.60
1:E:2755:ILE:HG22	1:E:2810:LYS:HZ2	1.66	0.60
1:E:2793:PRO:HA	1:E:2855:TYR:HB2	1.83	0.60
1:E:3147:ILE:HG23	1:E:3152:PHE:HB2	1.83	0.60
1:G:2418:LEU:O	1:G:2422:ILE:HG12	2.01	0.60
2:I:57:LYS:HE3	2:I:80:VAL:HG12	1.83	0.60
1:B:1442:GLY:H	1:B:1509:ILE:HG12	1.66	0.60
1:B:3147:ILE:HG23	1:B:3152:PHE:HB2	1.83	0.60
1:B:4942:GLU:OE1	1:B:4946:GLN:NE2	2.34	0.60
1:G:1442:GLY:H	1:G:1509:ILE:HG12	1.66	0.60
1:G:2747:ILE:HD12	1:G:2817:ILE:HD13	1.82	0.60
1:J:4088:ILE:O	1:J:4122:MET:HB3	2.01	0.60
1:G:2881:ASN:HA	1:G:2884:ASN:ND2	2.16	0.60
1:G:3414:ARG:NH1	1:G:3418:ASN:OD1	2.32	0.60
1:J:3842:LEU:HB3	1:J:3875:MET:HE3	1.84	0.60
1:J:4823:LEU:HD23	1:J:4826:ILE:HD12	1.82	0.60
1:B:2580:ASP:OD2	1:B:2621:HIS:ND1	2.33	0.60
1:B:2747:ILE:HD12	1:B:2817:ILE:HD13	1.82	0.60
1:B:3877:ASP:HB3	1:B:3880:PHE:HB3	1.82	0.60
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.32	0.60
1:E:182:LEU:HD11	1:E:189:LEU:HB3	1.82	0.60
1:G:4942:GLU:OE1	1:G:4946:GLN:NE2	2.34	0.60
2:D:57:LYS:HE3	2:D:80:VAL:HG12	1.83	0.60
3:M:105:ASN:ND2	3:M:111:ASN:HB2	2.16	0.60
1:B:2418:LEU:O	1:B:2422:ILE:HG12	2.01	0.60
1:E:2881:ASN:HA	1:E:2884:ASN:ND2	2.16	0.60
1:G:2964:LEU:O	1:G:2967:MET:HG3	2.01	0.60
1:G:4127:GLU:OE1	1:G:4131:ARG:NH2	2.32	0.60
1:G:4823:LEU:HD23	1:G:4826:ILE:HD12	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4090:LYS:HE2	1:J:4112:LEU:HD22	1.82	0.60
1:J:4942:GLU:OE1	1:J:4946:GLN:NE2	2.34	0.60
1:B:2369:ARG:HG2	1:B:2372:GLY:H	1.67	0.60
1:E:3145:GLN:HB3	1:E:3196:ARG:HD2	1.83	0.60
1:G:1170:MET:HE1	1:G:1176:GLU:HG3	1.83	0.60
1:G:2621:HIS:O	1:G:2624:ARG:HG2	2.02	0.60
1:J:2621:HIS:O	1:J:2624:ARG:HG2	2.01	0.60
1:J:4118:ASP:HB3	1:J:4122:MET:HA	1.84	0.60
3:C:105:ASN:ND2	3:C:111:ASN:HB2	2.16	0.60
1:B:1018:ASN:HB2	1:B:1021:LEU:HG	1.84	0.60
1:B:1161:ILE:HG12	1:B:1177:THR:HA	1.84	0.60
1:E:4088:ILE:O	1:E:4122:MET:HB3	2.01	0.60
1:E:4090:LYS:HE2	1:E:4112:LEU:HD22	1.82	0.60
1:E:4918:ILE:HD13	1:J:4892:ARG:NH2	2.16	0.60
1:G:2369:ARG:HG2	1:G:2372:GLY:H	1.67	0.60
1:G:3187:ARG:HG3	1:G:3188:PRO:HD3	1.82	0.60
1:J:629:ARG:HH21	2:I:90:VAL:HG13	1.66	0.60
1:J:904:HIS:CD2	1:J:907:LEU:H	2.19	0.60
1:J:1161:ILE:HG12	1:J:1177:THR:HA	1.84	0.60
1:J:1293:LEU:HD11	1:J:1594:ARG:HG2	1.84	0.60
1:J:2202:GLY:HA2	1:J:2204:HIS:CE1	2.36	0.60
2:H:57:LYS:HE3	2:H:80:VAL:HG12	1.83	0.60
3:F:90:THR:HG23	3:F:124:THR:HA	1.84	0.60
3:K:90:THR:HG23	3:K:124:THR:HA	1.84	0.60
1:B:1035:ASN:OD1	3:C:109:THR:OG1	2.19	0.60
1:E:1170:MET:HE1	1:E:1176:GLU:HG3	1.83	0.60
1:E:2211:MET:HE3	1:E:2215:LEU:HD13	1.84	0.60
1:E:2964:LEU:O	1:E:2967:MET:HG3	2.01	0.60
1:J:2418:LEU:O	1:J:2422:ILE:HG12	2.01	0.60
1:J:2881:ASN:HA	1:J:2884:ASN:ND2	2.16	0.60
1:J:3145:GLN:HB3	1:J:3196:ARG:HD2	1.83	0.60
1:B:1727:ARG:NH2	1:B:1775:HIS:HA	2.17	0.60
1:B:2211:MET:HE3	1:B:2215:LEU:HD13	1.84	0.60
1:E:904:HIS:CD2	1:E:907:LEU:H	2.19	0.60
1:G:360:ALA:HA	1:G:377:ILE:HD13	1.84	0.60
2:A:57:LYS:HE3	2:A:80:VAL:HG12	1.83	0.60
3:K:105:ASN:ND2	3:K:111:ASN:HB2	2.17	0.60
1:B:904:HIS:CD2	1:B:907:LEU:H	2.19	0.60
1:B:3100:SER:HB3	1:B:3167:ARG:HD3	1.84	0.60
1:E:4118:ASP:HB3	1:E:4122:MET:HA	1.84	0.60
1:E:4983:HIS:O	5:E:5102:ATP:N6	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2265:LEU:HD21	1:G:2272:PRO:HG2	1.84	0.60
1:J:2751:LEU:O	1:J:2755:ILE:HG12	2.02	0.60
1:J:3081:MET:HG3	1:J:3156:VAL:HA	1.84	0.60
1:J:4863:TYR:HB2	1:J:4876:CYS:HB2	1.84	0.60
1:E:3100:SER:HB3	1:E:3167:ARG:HD3	1.84	0.59
1:E:4942:GLU:OE1	1:E:4946:GLN:NE2	2.34	0.59
1:G:924:MET:HB2	3:M:107:TRP:CE3	2.37	0.59
1:J:2211:MET:HE3	1:J:2215:LEU:HD13	1.84	0.59
1:J:2369:ARG:HG2	1:J:2372:GLY:H	1.67	0.59
1:J:2779:GLU:HG3	1:J:2792:ARG:HG2	1.84	0.59
1:E:2621:HIS:O	1:E:2624:ARG:HG2	2.02	0.59
1:E:2816:MET:HB3	1:E:2878:LEU:HD13	1.84	0.59
1:G:917:GLU:OE1	3:M:101:PRO:HB2	2.01	0.59
1:B:1170:MET:HE1	1:B:1176:GLU:HG3	1.83	0.59
1:E:2369:ARG:HG2	1:E:2372:GLY:H	1.67	0.59
1:E:4863:TYR:HB2	1:E:4876:CYS:HB2	1.84	0.59
1:G:1018:ASN:HB2	1:G:1021:LEU:HG	1.84	0.59
1:G:1161:ILE:HG12	1:G:1177:THR:HA	1.84	0.59
1:G:1727:ARG:NH2	1:G:1775:HIS:HA	2.17	0.59
1:G:4118:ASP:HB3	1:G:4122:MET:HA	1.84	0.59
1:J:35:LEU:HD23	1:J:49:LEU:HB3	1.85	0.59
1:J:1727:ARG:NH2	1:J:1775:HIS:HA	2.17	0.59
1:J:2265:LEU:HD21	1:J:2272:PRO:HG2	1.84	0.59
1:J:3877:ASP:HB3	1:J:3880:PHE:HB3	1.82	0.59
1:J:4983:HIS:O	5:J:5102:ATP:N6	2.35	0.59
1:B:2816:MET:HB3	1:B:2878:LEU:HD13	1.84	0.59
1:E:765:GLN:OE1	1:E:765:GLN:N	2.35	0.59
1:E:2202:GLY:HA2	1:E:2204:HIS:CE1	2.36	0.59
1:E:3757:GLU:O	1:E:3761:GLN:HG2	2.02	0.59
1:E:3842:LEU:HB3	1:E:3875:MET:HE3	1.84	0.59
1:G:2211:MET:HE3	1:G:2215:LEU:HD13	1.84	0.59
1:G:3147:ILE:HG23	1:G:3152:PHE:HB2	1.83	0.59
1:J:3100:SER:HB3	1:J:3167:ARG:HD3	1.84	0.59
1:J:3391:GLU:O	1:J:3395:ARG:HG3	2.03	0.59
3:M:90:THR:HG23	3:M:124:THR:HA	1.84	0.59
1:B:867:LEU:HD12	1:B:871:ARG:HE	1.68	0.59
1:B:1476:MET:HB3	1:B:1485:SER:HB2	1.84	0.59
1:B:2163:ARG:HA	1:B:2166:LEU:HG	1.85	0.59
1:B:4983:HIS:O	5:B:5102:ATP:N6	2.35	0.59
1:E:1293:LEU:HD11	1:E:1594:ARG:HG2	1.84	0.59
1:E:1442:GLY:H	1:E:1509:ILE:HG12	1.66	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1727:ARG:NH2	1:E:1775:HIS:HA	2.17	0.59
1:E:1808:ARG:NH1	1:E:1853:ILE:O	2.34	0.59
1:G:2751:LEU:O	1:G:2755:ILE:HG12	2.02	0.59
1:G:2779:GLU:HG3	1:G:2792:ARG:HG2	1.84	0.59
1:G:3967:GLU:HA	1:G:3970:GLN:CG	2.33	0.59
1:J:917:GLU:CD	3:K:101:PRO:HB2	2.28	0.59
1:J:2964:LEU:O	1:J:2967:MET:HG3	2.01	0.59
1:J:3147:ILE:HG23	1:J:3152:PHE:HB2	1.83	0.59
1:E:35:LEU:HD23	1:E:49:LEU:HB3	1.85	0.59
1:E:3391:GLU:O	1:E:3395:ARG:HG3	2.03	0.59
1:G:2793:PRO:HA	1:G:2855:TYR:HB2	1.83	0.59
1:G:3100:SER:HB3	1:G:3167:ARG:HD3	1.84	0.59
3:C:90:THR:HG23	3:C:124:THR:HA	1.84	0.59
1:B:924:MET:HE1	3:C:106:PRO:HG2	1.83	0.59
1:B:2674:LEU:HD11	1:B:2910:THR:OG1	2.03	0.59
1:E:246:TYR:CG	1:E:373:LYS:HB3	2.37	0.59
1:E:2674:LEU:HD11	1:E:2910:THR:OG1	2.03	0.59
1:E:2779:GLU:HG3	1:E:2792:ARG:HG2	1.84	0.59
1:G:2674:LEU:HD11	1:G:2910:THR:OG1	2.03	0.59
1:J:1839:VAL:HG12	1:J:1843:LYS:HE2	1.85	0.59
1:B:2621:HIS:O	1:B:2624:ARG:HG2	2.02	0.59
1:B:2747:ILE:HG12	1:B:2755:ILE:HG13	1.85	0.59
1:E:629:ARG:HH21	2:D:90:VAL:HG13	1.66	0.59
1:E:1161:ILE:HG12	1:E:1177:THR:HA	1.84	0.59
1:G:765:GLN:OE1	1:G:765:GLN:N	2.35	0.59
1:J:224:HIS:HA	1:J:388:LEU:HD22	1.85	0.59
1:B:224:HIS:HA	1:B:388:LEU:HD22	1.85	0.59
1:B:2265:LEU:HD21	1:B:2272:PRO:HG2	1.84	0.59
1:E:3081:MET:HG3	1:E:3156:VAL:HA	1.84	0.59
1:G:1808:ARG:NH1	1:G:1853:ILE:O	2.34	0.59
1:G:3081:MET:HG3	1:G:3156:VAL:HA	1.84	0.59
1:G:4693:GLY:O	1:G:4700:GLN:NE2	2.36	0.59
1:J:1018:ASN:HB2	1:J:1021:LEU:HG	1.84	0.59
1:J:2674:LEU:HD11	1:J:2910:THR:OG1	2.03	0.59
1:J:2793:PRO:HA	1:J:2855:TYR:HB2	1.83	0.59
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.85	0.59
1:E:1839:VAL:HG12	1:E:1843:LYS:HE2	1.85	0.59
1:E:2163:ARG:HA	1:E:2166:LEU:HG	1.85	0.59
1:G:1024:TYR:HE1	1:G:1035:ASN:HB2	1.67	0.59
1:G:3132:THR:HA	1:G:3136:LEU:HB2	1.85	0.59
1:G:4892:ARG:NH2	1:J:4918:ILE:HD13	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1024:TYR:HE1	1:J:1035:ASN:HB2	1.67	0.59
3:F:105:ASN:ND2	3:F:111:ASN:HB2	2.17	0.59
1:B:1024:TYR:HE1	1:B:1035:ASN:HB2	1.67	0.58
1:B:1822:GLY:HA3	1:B:1838:PHE:HZ	1.68	0.58
1:B:1839:VAL:HG12	1:B:1843:LYS:HE2	1.85	0.58
1:B:2751:LEU:O	1:B:2755:ILE:HG12	2.02	0.58
1:B:3757:GLU:O	1:B:3761:GLN:HG2	2.02	0.58
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.38	0.58
1:B:4693:GLY:O	1:B:4700:GLN:NE2	2.36	0.58
1:G:2163:ARG:HA	1:G:2166:LEU:HG	1.85	0.58
1:J:1476:MET:HB3	1:J:1485:SER:HB2	1.84	0.58
1:B:829:TYR:HB3	1:B:1073:ARG:HH11	1.68	0.58
1:E:4693:GLY:O	1:E:4700:GLN:NE2	2.36	0.58
1:G:35:LEU:HD23	1:G:49:LEU:HB3	1.85	0.58
1:G:224:HIS:HA	1:G:388:LEU:HD22	1.85	0.58
1:G:1839:VAL:HG12	1:G:1843:LYS:HE2	1.85	0.58
1:G:3842:LEU:HB3	1:G:3875:MET:HE3	1.84	0.58
1:G:4983:HIS:O	5:G:5102:ATP:N6	2.35	0.58
1:J:3981:ALA:HA	1:J:3986:TRP:CZ2	2.38	0.58
1:B:1293:LEU:HD11	1:B:1594:ARG:HG2	1.84	0.58
1:B:3842:LEU:HB3	1:B:3875:MET:HE3	1.84	0.58
1:E:2265:LEU:HD21	1:E:2272:PRO:HG2	1.84	0.58
1:E:2751:LEU:O	1:E:2755:ILE:HG12	2.02	0.58
1:G:3813:GLN:NE2	1:G:3890:LEU:O	2.36	0.58
1:J:3757:GLU:O	1:J:3761:GLN:HG2	2.02	0.58
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.04	0.58
1:B:4118:ASP:HB3	1:B:4122:MET:HA	1.84	0.58
1:E:224:HIS:HA	1:E:388:LEU:HD22	1.85	0.58
1:E:924:MET:HB2	3:F:107:TRP:CE3	2.38	0.58
1:E:1018:ASN:HB2	1:E:1021:LEU:HG	1.84	0.58
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.04	0.58
1:J:829:TYR:HB3	1:J:1073:ARG:HH11	1.68	0.58
1:B:993:HIS:HB3	1:B:1024:TYR:HB2	1.85	0.58
1:B:1808:ARG:HD3	1:B:1853:ILE:HG22	1.85	0.58
1:E:663:TYR:HD1	1:E:747:CYS:HB3	1.69	0.58
1:E:1024:TYR:HE1	1:E:1035:ASN:HB2	1.67	0.58
1:E:3132:THR:HA	1:E:3136:LEU:HB2	1.85	0.58
1:E:3981:ALA:HA	1:E:3986:TRP:CZ2	2.38	0.58
1:J:2747:ILE:HG12	1:J:2755:ILE:HG13	1.85	0.58
1:J:3967:GLU:HA	1:J:3970:GLN:CG	2.33	0.58
1:B:4863:TYR:HB2	1:B:4876:CYS:HB2	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:615:ARG:NH2	1:E:1676:LEU:O	2.37	0.58
1:E:1822:GLY:HA3	1:E:1838:PHE:HZ	1.68	0.58
1:E:3967:GLU:HA	1:E:3970:GLN:CG	2.33	0.58
1:G:1820:ARG:HH22	1:G:1865:MET:HE1	1.68	0.58
1:G:1822:GLY:HA3	1:G:1838:PHE:HZ	1.69	0.58
1:G:3757:GLU:O	1:G:3761:GLN:HG2	2.02	0.58
1:J:867:LEU:HD12	1:J:871:ARG:HE	1.68	0.58
1:J:924:MET:HB2	3:K:107:TRP:CE3	2.38	0.58
1:J:935:LEU:HD12	1:J:988:LEU:HD23	1.85	0.58
1:J:1808:ARG:HD3	1:J:1853:ILE:HG22	1.85	0.58
1:J:2163:ARG:HA	1:J:2166:LEU:HG	1.85	0.58
1:J:2816:MET:HB3	1:J:2878:LEU:HD13	1.84	0.58
1:J:3813:GLN:NE2	1:J:3890:LEU:O	2.36	0.58
1:B:1774:PRO:HD2	1:B:2153:MET:HE2	1.86	0.58
1:B:1820:ARG:HH22	1:B:1865:MET:HE1	1.68	0.58
1:E:3813:GLN:NE2	1:E:3890:LEU:O	2.36	0.58
1:G:867:LEU:HD12	1:G:871:ARG:HE	1.68	0.58
1:G:1293:LEU:HD11	1:G:1594:ARG:HG2	1.84	0.58
1:G:4863:TYR:HB2	1:G:4876:CYS:HB2	1.84	0.58
1:J:1703:LEU:HD23	1:J:1708:ARG:HB3	1.86	0.58
1:E:1820:ARG:HH22	1:E:1865:MET:HE1	1.68	0.58
1:G:1476:MET:HB3	1:G:1485:SER:HB2	1.84	0.58
1:G:3227:ARG:HB3	1:G:3232:LEU:HB2	1.85	0.58
1:J:1822:GLY:HA3	1:J:1838:PHE:HZ	1.69	0.58
1:J:2123:LEU:O	1:J:2127:GLN:HG2	2.04	0.58
1:J:4693:GLY:O	1:J:4700:GLN:NE2	2.36	0.58
1:B:935:LEU:HD12	1:B:988:LEU:HD23	1.85	0.58
1:B:1808:ARG:HD2	1:B:1854:PHE:HA	1.86	0.58
1:B:3081:MET:HG3	1:B:3156:VAL:HA	1.84	0.58
1:B:3391:GLU:O	1:B:3395:ARG:HG3	2.03	0.58
1:E:867:LEU:HD12	1:E:871:ARG:HE	1.68	0.58
1:E:3227:ARG:HB3	1:E:3232:LEU:HB2	1.85	0.58
1:G:993:HIS:HB3	1:G:1024:TYR:HB2	1.85	0.58
1:J:1820:ARG:HH22	1:J:1865:MET:HE1	1.68	0.58
2:I:87:HIS:CD2	2:I:91:ILE:HD12	2.39	0.58
1:B:913:LEU:HB3	1:B:917:GLU:HB2	1.86	0.58
1:B:1152:MET:SD	1:B:1161:ILE:HB	2.44	0.58
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.04	0.58
1:G:2448:GLY:O	1:G:2452:ARG:HG2	2.04	0.58
1:G:3391:GLU:O	1:G:3395:ARG:HG3	2.03	0.58
1:J:1152:MET:SD	1:J:1161:ILE:HB	2.44	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3263:TYR:HE1	1:J:3326:ASN:HD22	1.52	0.58
2:D:87:HIS:CD2	2:D:91:ILE:HD12	2.39	0.58
1:B:35:LEU:HD23	1:B:49:LEU:HB3	1.85	0.57
1:B:70:GLU:HG2	1:B:71:GLN:HG3	1.86	0.57
1:B:2779:GLU:HG3	1:B:2792:ARG:HG2	1.84	0.57
1:B:3813:GLN:NE2	1:B:3890:LEU:O	2.36	0.57
1:E:993:HIS:HB3	1:E:1024:TYR:HB2	1.85	0.57
1:E:2747:ILE:HG12	1:E:2755:ILE:HG13	1.85	0.57
1:E:4673:ARG:NH2	1:E:4702:ASP:OD1	2.37	0.57
1:G:70:GLU:HG2	1:G:71:GLN:HG3	1.86	0.57
1:G:657:THR:O	1:G:1007:TYR:N	2.34	0.57
1:G:913:LEU:HB3	1:G:917:GLU:HB2	1.86	0.57
1:J:3224:PRO:HA	1:J:3227:ARG:HD2	1.86	0.57
2:A:87:HIS:CD2	2:A:91:ILE:HD12	2.39	0.57
1:B:917:GLU:CD	3:C:101:PRO:HB2	2.28	0.57
1:E:786:GLY:H	1:E:1631:GLN:HA	1.69	0.57
1:E:1476:MET:HB3	1:E:1485:SER:HB2	1.84	0.57
1:G:786:GLY:H	1:G:1631:GLN:HA	1.69	0.57
1:G:829:TYR:HB3	1:G:1073:ARG:HH11	1.68	0.57
1:G:1152:MET:SD	1:G:1161:ILE:HB	2.44	0.57
1:G:2747:ILE:HG12	1:G:2755:ILE:HG13	1.85	0.57
1:G:3224:PRO:HA	1:G:3227:ARG:HD2	1.86	0.57
1:J:913:LEU:HB3	1:J:917:GLU:HB2	1.86	0.57
1:J:2238:TYR:O	1:J:2242:ILE:HG12	2.04	0.57
1:B:663:TYR:HD1	1:B:747:CYS:HB3	1.69	0.57
1:B:4918:ILE:HD13	1:E:4892:ARG:NH2	2.19	0.57
1:E:935:LEU:HD12	1:E:988:LEU:HD23	1.85	0.57
1:E:2880:GLU:OE1	1:E:2881:ASN:ND2	2.37	0.57
1:J:663:TYR:HD1	1:J:747:CYS:HB3	1.69	0.57
1:J:1808:ARG:NH1	1:J:1853:ILE:O	2.34	0.57
1:J:4673:ARG:NH2	1:J:4702:ASP:OD1	2.37	0.57
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.04	0.57
1:E:394:GLN:N	1:E:397:GLU:OE2	2.38	0.57
1:E:1808:ARG:HD3	1:E:1853:ILE:HG22	1.85	0.57
1:E:3793:MET:SD	1:E:3793:MET:N	2.78	0.57
1:G:917:GLU:HB3	3:M:104:TYR:OH	2.03	0.57
1:G:1774:PRO:HD2	1:G:2153:MET:HE2	1.86	0.57
1:G:1808:ARG:HD2	1:G:1854:PHE:HA	1.86	0.57
1:G:2816:MET:HB3	1:G:2878:LEU:HD13	1.84	0.57
1:G:2880:GLU:OE1	1:G:2881:ASN:ND2	2.38	0.57
1:G:3793:MET:N	1:G:3793:MET:SD	2.78	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4673:ARG:NH2	1:G:4702:ASP:OD1	2.37	0.57
1:J:615:ARG:NH2	1:J:1676:LEU:O	2.37	0.57
1:J:657:THR:O	1:J:1007:TYR:N	2.34	0.57
3:M:107:TRP:HE1	3:M:110:PRO:HB2	1.69	0.57
1:B:3018:LEU:HB2	1:B:3074:SER:HA	1.85	0.57
1:B:3967:GLU:HA	1:B:3970:GLN:CG	2.33	0.57
1:E:1703:LEU:HD23	1:E:1708:ARG:HB3	1.86	0.57
1:E:2111:VAL:HG12	1:E:2113:SER:H	1.69	0.57
1:E:2238:TYR:O	1:E:2242:ILE:HG12	2.04	0.57
1:G:615:ARG:NH2	1:G:1676:LEU:O	2.37	0.57
1:G:1159:THR:HG22	1:G:1180:ARG:HA	1.86	0.57
1:G:2111:VAL:HG12	1:G:2113:SER:H	1.69	0.57
1:J:2448:GLY:O	1:J:2452:ARG:HG2	2.04	0.57
1:J:2880:GLU:OE1	1:J:2881:ASN:ND2	2.37	0.57
1:J:3132:THR:HA	1:J:3136:LEU:HB2	1.85	0.57
1:E:1119:GLU:HB3	1:E:1134:LEU:HD22	1.86	0.57
1:E:1159:THR:HG22	1:E:1180:ARG:HA	1.86	0.57
1:E:1730:MET:O	1:E:1772:ARG:NH1	2.38	0.57
1:E:4545:GLU:OE1	1:E:4548:ARG:NE	2.27	0.57
1:G:935:LEU:HD12	1:G:988:LEU:HD23	1.85	0.57
1:G:2238:TYR:O	1:G:2242:ILE:HG12	2.04	0.57
1:G:2768:PHE:O	1:G:2772:GLN:HG2	2.05	0.57
1:G:3263:TYR:HE1	1:G:3326:ASN:HD22	1.52	0.57
1:J:2111:VAL:HG12	1:J:2113:SER:H	1.69	0.57
1:J:2768:PHE:O	1:J:2772:GLN:HG2	2.05	0.57
1:J:3018:LEU:HB2	1:J:3074:SER:HA	1.85	0.57
1:G:1119:GLU:HB3	1:G:1134:LEU:HD22	1.86	0.57
1:J:2305:CYS:HB2	1:J:2324:ASN:HB3	1.87	0.57
1:J:2325:PRO:O	1:J:2329:GLU:HG2	2.05	0.57
1:J:4651:THR:OG1	1:J:4803:HIS:NE2	2.35	0.57
1:B:394:GLN:N	1:B:397:GLU:OE2	2.38	0.57
1:B:1730:MET:O	1:B:1772:ARG:NH1	2.38	0.57
1:B:2325:PRO:O	1:B:2329:GLU:HG2	2.05	0.57
1:B:2880:GLU:OE1	1:B:2881:ASN:ND2	2.37	0.57
1:B:4673:ARG:NH2	1:B:4702:ASP:OD1	2.37	0.57
1:E:637:LEU:HD23	1:E:1637:MET:HE1	1.86	0.57
1:E:1152:MET:SD	1:E:1161:ILE:HB	2.44	0.57
1:G:637:LEU:HD23	1:G:1637:MET:HE1	1.86	0.57
1:J:861:ILE:HG21	1:J:933:LEU:HD22	1.87	0.57
1:B:786:GLY:H	1:B:1631:GLN:HA	1.69	0.57
1:E:981:GLN:O	1:E:985:VAL:HG23	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:219:VAL:HG12	1:G:261:ARG:HB2	1.87	0.57
1:G:1808:ARG:HD3	1:G:1853:ILE:HG22	1.85	0.57
1:G:2970:SER:HB3	1:G:2998:PHE:HE2	1.70	0.57
1:J:993:HIS:HB3	1:J:1024:TYR:HB2	1.85	0.57
1:J:1730:MET:O	1:J:1772:ARG:NH1	2.38	0.57
1:J:3227:ARG:HB3	1:J:3232:LEU:HB2	1.85	0.57
1:J:4860:ARG:HG3	1:J:4876:CYS:SG	2.45	0.57
1:B:1862:ILE:O	1:B:1866:ILE:HG13	2.05	0.57
1:B:3224:PRO:HA	1:B:3227:ARG:HD2	1.86	0.57
1:B:3227:ARG:HB3	1:B:3232:LEU:HB2	1.85	0.57
1:E:219:VAL:HG12	1:E:261:ARG:HB2	1.87	0.57
1:E:4865:LYS:HD2	1:E:4901:ILE:HA	1.87	0.57
1:J:394:GLN:N	1:J:397:GLU:OE2	2.38	0.57
1:J:1786:LEU:HD12	1:J:1787:PRO:HD2	1.87	0.57
1:J:1808:ARG:HD2	1:J:1854:PHE:HA	1.86	0.57
1:J:2970:SER:HB3	1:J:2998:PHE:HE2	1.70	0.57
1:J:3793:MET:N	1:J:3793:MET:SD	2.78	0.57
1:J:4865:LYS:HD2	1:J:4901:ILE:HA	1.87	0.57
2:A:66:MET:HE2	2:A:70:GLN:HG2	1.87	0.57
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.37	0.56
1:B:2653:LYS:HE2	1:B:2661:TRP:HA	1.87	0.56
1:B:3793:MET:N	1:B:3793:MET:SD	2.78	0.56
1:B:4243:PHE:CE2	1:B:4247:ILE:HD11	2.40	0.56
1:E:1862:ILE:O	1:E:1866:ILE:HG13	2.05	0.56
1:E:2325:PRO:O	1:E:2329:GLU:HG2	2.05	0.56
1:G:663:TYR:HD1	1:G:747:CYS:HB3	1.69	0.56
1:B:360:ALA:HA	1:B:377:ILE:HD13	1.87	0.56
1:E:1774:PRO:HD2	1:E:2153:MET:HE2	1.86	0.56
1:E:2305:CYS:HB2	1:E:2324:ASN:HB3	1.87	0.56
1:E:2448:GLY:O	1:E:2452:ARG:HG2	2.04	0.56
1:E:2653:LYS:HE2	1:E:2661:TRP:HA	1.87	0.56
1:E:3263:TYR:HE1	1:E:3326:ASN:HD22	1.52	0.56
1:G:369:LEU:HB3	1:G:371:VAL:HG23	1.86	0.56
1:G:394:GLN:N	1:G:397:GLU:OE2	2.38	0.56
1:G:1703:LEU:HD23	1:G:1708:ARG:HB3	1.86	0.56
1:G:3031:ALA:O	1:G:3036:LYS:NZ	2.37	0.56
1:G:4115:SER:HB3	1:G:4122:MET:HE2	1.87	0.56
1:J:245:VAL:HG23	1:J:376:ALA:HB3	1.88	0.56
1:J:1159:THR:HG22	1:J:1180:ARG:HA	1.86	0.56
2:D:66:MET:HE2	2:D:70:GLN:HG2	1.87	0.56
2:H:87:HIS:CD2	2:H:91:ILE:HD12	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:4:LEU:HD21	3:F:97:ALA:HB2	1.87	0.56
1:B:1786:LEU:HD12	1:B:1787:PRO:HD2	1.87	0.56
1:B:2230:THR:HA	1:B:2270:SER:HB2	1.87	0.56
1:B:2440:MET:N	1:B:2440:MET:SD	2.78	0.56
1:B:2479:LEU:HA	1:B:2541:PHE:HZ	1.70	0.56
1:B:2768:PHE:O	1:B:2772:GLN:HG2	2.05	0.56
1:B:2970:SER:HB3	1:B:2998:PHE:HE2	1.70	0.56
1:B:4242:ILE:HA	1:B:4245:MET:HE3	1.88	0.56
1:B:4904:PRO:HB3	1:B:4913:ARG:HD3	1.87	0.56
1:E:574:VAL:HA	1:E:577:ILE:HG22	1.87	0.56
1:E:829:TYR:HB3	1:E:1073:ARG:HH11	1.68	0.56
1:E:913:LEU:HB3	1:E:917:GLU:HB2	1.86	0.56
1:E:2479:LEU:HA	1:E:2541:PHE:HZ	1.71	0.56
1:E:2633:LEU:HD21	1:E:2682:ILE:HD12	1.87	0.56
1:E:3018:LEU:HB2	1:E:3074:SER:HA	1.85	0.56
1:G:574:VAL:HA	1:G:577:ILE:HG22	1.87	0.56
1:G:861:ILE:HG21	1:G:933:LEU:HD22	1.87	0.56
1:G:981:GLN:O	1:G:985:VAL:HG23	2.05	0.56
1:G:1730:MET:O	1:G:1772:ARG:NH1	2.38	0.56
1:G:1815:LEU:HD22	1:G:1845:VAL:HG21	1.87	0.56
1:G:1862:ILE:O	1:G:1866:ILE:HG13	2.05	0.56
1:G:2230:THR:HA	1:G:2270:SER:HB2	1.87	0.56
1:G:2449:GLU:O	1:G:2453:ILE:HG12	2.06	0.56
1:G:2902:HIS:CE1	1:G:2904:LEU:HB2	2.41	0.56
1:G:4242:ILE:HA	1:G:4245:MET:HE3	1.88	0.56
1:G:5009:TYR:HA	1:G:5012:LYS:HE3	1.88	0.56
1:J:70:GLU:HG2	1:J:71:GLN:HG3	1.86	0.56
1:J:247:TYR:HB2	1:J:374:LYS:HD2	1.86	0.56
1:J:574:VAL:HA	1:J:577:ILE:HG22	1.87	0.56
1:J:924:MET:HE1	3:K:106:PRO:HG2	1.87	0.56
1:J:981:GLN:O	1:J:985:VAL:HG23	2.05	0.56
1:J:1119:GLU:HB3	1:J:1134:LEU:HD22	1.86	0.56
1:J:1774:PRO:HD2	1:J:2153:MET:HE2	1.86	0.56
1:J:2440:MET:N	1:J:2440:MET:SD	2.78	0.56
1:J:4128:PHE:HA	1:J:4131:ARG:HE	1.70	0.56
1:J:4243:PHE:CE2	1:J:4247:ILE:HD11	2.40	0.56
1:B:765:GLN:OE1	1:B:765:GLN:N	2.35	0.56
1:B:2111:VAL:HG12	1:B:2113:SER:H	1.69	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:4177:TYR:HE1	1:B:4199:GLU:HB2	1.70	0.56
1:E:70:GLU:HG2	1:E:71:GLN:HG3	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1808:ARG:HD2	1:E:1854:PHE:HA	1.86	0.56
1:E:3874:VAL:HG23	1:E:3875:MET:H	1.71	0.56
1:G:2624:ARG:HD2	1:G:2910:THR:HG23	1.88	0.56
1:G:2653:LYS:HE2	1:G:2661:TRP:HA	1.87	0.56
1:G:4860:ARG:HG3	1:G:4876:CYS:SG	2.45	0.56
1:J:219:VAL:HG12	1:J:261:ARG:HB2	1.87	0.56
1:J:786:GLY:H	1:J:1631:GLN:HA	1.69	0.56
1:J:1260:MET:SD	1:J:1260:MET:N	2.77	0.56
1:J:2479:LEU:HA	1:J:2541:PHE:HZ	1.70	0.56
1:J:3874:VAL:HG23	1:J:3875:MET:H	1.71	0.56
1:J:4177:TYR:HE1	1:J:4199:GLU:HB2	1.70	0.56
1:B:637:LEU:HD23	1:B:1637:MET:HE1	1.86	0.56
1:B:2633:LEU:HD21	1:B:2682:ILE:HD12	1.87	0.56
1:E:150:MET:HE1	1:E:169:LEU:HB3	1.87	0.56
1:E:2522:LEU:HD23	1:E:2526:PHE:HD2	1.71	0.56
1:E:2768:PHE:O	1:E:2772:GLN:HG2	2.05	0.56
1:E:2970:SER:HB3	1:E:2998:PHE:HE2	1.70	0.56
1:E:3224:PRO:HA	1:E:3227:ARG:HD2	1.86	0.56
1:E:4242:ILE:HA	1:E:4245:MET:HE3	1.88	0.56
1:E:4243:PHE:CE2	1:E:4247:ILE:HD11	2.40	0.56
1:E:4761:PRO:HB2	1:E:4766:THR:HG21	1.88	0.56
1:G:3018:LEU:HB2	1:G:3074:SER:HA	1.85	0.56
1:G:4865:LYS:HD2	1:G:4901:ILE:HA	1.86	0.56
1:J:1243:PRO:O	1:J:1458:HIS:ND1	2.31	0.56
1:J:2111:VAL:HG21	1:J:2120:MET:HE1	1.88	0.56
1:J:2522:LEU:HD23	1:J:2526:PHE:HD2	1.71	0.56
1:J:2624:ARG:HD2	1:J:2910:THR:HG23	1.88	0.56
1:B:219:VAL:HG12	1:B:261:ARG:HB2	1.87	0.56
1:B:574:VAL:HA	1:B:577:ILE:HG22	1.87	0.56
1:B:1119:GLU:HB3	1:B:1134:LEU:HD22	1.86	0.56
1:B:2111:VAL:HG21	1:B:2120:MET:HE1	1.88	0.56
1:B:3036:LYS:HD2	1:B:3079:THR:HG21	1.88	0.56
1:B:4761:PRO:HB2	1:B:4766:THR:HG21	1.88	0.56
1:B:5009:TYR:HA	1:B:5012:LYS:HE3	1.88	0.56
1:E:246:TYR:CD1	1:E:375:LYS:HA	2.40	0.56
1:E:1432:THR:HG23	1:E:1572:ILE:HG23	1.88	0.56
1:G:1786:LEU:HD12	1:G:1787:PRO:HD2	1.88	0.56
1:G:2305:CYS:HB2	1:G:2324:ASN:HB3	1.87	0.56
1:G:2479:LEU:HA	1:G:2541:PHE:HZ	1.70	0.56
1:G:4243:PHE:CE2	1:G:4247:ILE:HD11	2.40	0.56
1:G:4833:ASN:HD21	1:G:4935:LEU:HB3	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:4:LEU:HD21	3:C:97:ALA:HB2	1.87	0.56
1:B:1432:THR:HG23	1:B:1572:ILE:HG23	1.87	0.56
1:B:2522:LEU:HD23	1:B:2526:PHE:HD2	1.71	0.56
1:E:917:GLU:OE2	3:F:101:PRO:HB2	2.04	0.56
1:E:4128:PHE:HA	1:E:4131:ARG:HE	1.70	0.56
1:G:12:GLN:NE2	1:G:13:PHE:O	2.39	0.56
1:G:1734:TYR:HB2	1:G:2141:ALA:HA	1.88	0.56
1:G:2111:VAL:HG21	1:G:2120:MET:HE1	1.88	0.56
1:J:2230:THR:HA	1:J:2270:SER:HB2	1.87	0.56
1:J:2633:LEU:HD21	1:J:2682:ILE:HD12	1.87	0.56
3:K:51:ILE:HD13	3:K:71:ARG:HG2	1.88	0.56
1:B:861:ILE:HG21	1:B:933:LEU:HD22	1.87	0.56
1:B:1703:LEU:HD23	1:B:1708:ARG:HB3	1.86	0.56
1:B:2448:GLY:O	1:B:2452:ARG:HG2	2.04	0.56
1:E:69:LEU:HD21	1:E:101:LEU:HD11	1.88	0.56
1:E:1786:LEU:HD12	1:E:1787:PRO:HD2	1.87	0.56
1:E:2230:THR:HA	1:E:2270:SER:HB2	1.87	0.56
1:E:2449:GLU:O	1:E:2453:ILE:HG12	2.06	0.56
1:E:3800:LEU:O	1:E:3804:ILE:HG12	2.06	0.56
1:E:4177:TYR:HE1	1:E:4199:GLU:HB2	1.70	0.56
1:G:3670:GLU:HG3	1:G:3728:ILE:HG23	1.88	0.56
1:J:765:GLN:OE1	1:J:765:GLN:N	2.35	0.56
1:J:1727:ARG:HG3	1:J:1773:PRO:HG2	1.88	0.56
2:H:66:MET:HE2	2:H:70:GLN:HG2	1.87	0.56
3:M:18:LEU:HD22	3:M:85:LEU:HD21	1.88	0.56
1:B:69:LEU:HD21	1:B:101:LEU:HD11	1.88	0.56
1:B:2902:HIS:CE1	1:B:2904:LEU:HB2	2.41	0.56
1:B:3263:TYR:HE1	1:B:3326:ASN:HD22	1.52	0.56
1:B:4860:ARG:HG3	1:B:4876:CYS:SG	2.45	0.56
1:E:574:VAL:O	1:E:578:ILE:HG12	2.06	0.56
1:E:4115:SER:HB3	1:E:4122:MET:HE2	1.87	0.56
1:E:4904:PRO:HB3	1:E:4913:ARG:HD3	1.87	0.56
1:G:69:LEU:HD21	1:G:101:LEU:HD11	1.88	0.56
1:G:2522:LEU:HD23	1:G:2526:PHE:HD2	1.71	0.56
1:G:4904:PRO:HB3	1:G:4913:ARG:HD3	1.87	0.56
1:J:1240:LYS:HE3	1:J:1242:LEU:HB3	1.88	0.56
1:J:2442:LEU:HA	1:J:2447:LYS:HZ2	1.70	0.56
1:J:3036:LYS:HD2	1:J:3079:THR:HG21	1.88	0.56
1:J:4115:SER:HB3	1:J:4122:MET:HE2	1.87	0.56
1:J:4761:PRO:HB2	1:J:4766:THR:HG21	1.88	0.56
3:F:18:LEU:HD22	3:F:85:LEU:HD21	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:18:LEU:HD22	3:K:85:LEU:HD21	1.88	0.56
1:B:590:LEU:HG	1:B:599:VAL:HG11	1.88	0.56
1:B:838:HIS:CD2	1:B:1201:HIS:HB2	2.41	0.56
1:B:4833:ASN:HD21	1:B:4935:LEU:HB3	1.71	0.56
1:E:2111:VAL:HG21	1:E:2120:MET:HE1	1.88	0.56
1:E:3036:LYS:HD2	1:E:3079:THR:HG21	1.88	0.56
1:G:2325:PRO:O	1:G:2329:GLU:HG2	2.05	0.56
1:J:637:LEU:HD23	1:J:1637:MET:HE1	1.86	0.56
3:C:18:LEU:HD22	3:C:85:LEU:HD21	1.88	0.56
1:B:574:VAL:O	1:B:578:ILE:HG12	2.06	0.55
1:B:1734:TYR:HB2	1:B:2141:ALA:HA	1.88	0.55
1:B:2305:CYS:HB2	1:B:2324:ASN:HB3	1.87	0.55
1:E:590:LEU:HG	1:E:599:VAL:HG11	1.89	0.55
1:E:1240:LYS:HE3	1:E:1242:LEU:HB3	1.88	0.55
1:E:2454:ARG:HG2	1:E:2458:ARG:HE	1.71	0.55
1:E:2624:ARG:HD2	1:E:2910:THR:HG23	1.88	0.55
1:E:4860:ARG:HG3	1:E:4876:CYS:SG	2.45	0.55
1:G:590:LEU:HG	1:G:599:VAL:HG11	1.88	0.55
1:J:622:THR:HA	1:J:626:LEU:HD13	1.88	0.55
1:J:4242:ILE:HA	1:J:4245:MET:HE3	1.88	0.55
3:K:107:TRP:HE1	3:K:110:PRO:HB2	1.71	0.55
1:B:111:HIS:HB3	1:B:114:SER:HB2	1.88	0.55
1:B:3800:LEU:O	1:B:3804:ILE:HG12	2.06	0.55
1:B:4865:LYS:HD2	1:B:4901:ILE:HA	1.86	0.55
1:E:1727:ARG:HG3	1:E:1773:PRO:HG2	1.88	0.55
1:G:2633:LEU:HD21	1:G:2682:ILE:HD12	1.87	0.55
1:G:4761:PRO:HB2	1:G:4766:THR:HG21	1.88	0.55
1:J:69:LEU:HD21	1:J:101:LEU:HD11	1.88	0.55
1:J:150:MET:HE1	1:J:169:LEU:HB3	1.87	0.55
1:J:2902:HIS:CE1	1:J:2904:LEU:HB2	2.41	0.55
1:J:3065:VAL:O	1:J:3069:HIS:ND1	2.40	0.55
1:J:3800:LEU:O	1:J:3804:ILE:HG12	2.06	0.55
1:J:5009:TYR:HA	1:J:5012:LYS:HE3	1.88	0.55
3:F:51:ILE:HD13	3:F:71:ARG:HG2	1.88	0.55
1:B:880:GLU:HA	1:B:967:PRO:HG2	1.88	0.55
1:B:1727:ARG:HG3	1:B:1773:PRO:HG2	1.88	0.55
1:B:2624:ARG:HD2	1:B:2910:THR:HG23	1.88	0.55
1:E:1866:ILE:HG12	1:E:1939:MET:HE1	1.88	0.55
1:E:2902:HIS:CE1	1:E:2904:LEU:HB2	2.41	0.55
1:E:3670:GLU:HG3	1:E:3728:ILE:HG23	1.88	0.55
1:G:1727:ARG:HG3	1:G:1773:PRO:HG2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3036:LYS:HD2	1:G:3079:THR:HG21	1.88	0.55
1:G:3690:VAL:HB	1:G:3693:LYS:HE3	1.89	0.55
1:G:4952:GLU:O	1:G:4956:THR:HG23	2.06	0.55
1:J:1815:LEU:HD22	1:J:1845:VAL:HG21	1.88	0.55
1:J:2449:GLU:O	1:J:2453:ILE:HG12	2.06	0.55
1:B:12:GLN:NE2	1:B:13:PHE:O	2.39	0.55
1:B:981:GLN:O	1:B:985:VAL:HG23	2.05	0.55
1:B:2454:ARG:HG2	1:B:2458:ARG:HE	1.71	0.55
1:B:3065:VAL:O	1:B:3069:HIS:ND1	2.40	0.55
1:B:3874:VAL:HG23	1:B:3875:MET:H	1.71	0.55
1:E:838:HIS:CD2	1:E:1201:HIS:HB2	2.41	0.55
1:G:111:HIS:HB3	1:G:114:SER:HB2	1.88	0.55
1:G:2490:MET:SD	1:G:2490:MET:N	2.80	0.55
1:J:3246:LEU:HA	1:J:3249:LEU:HD12	1.89	0.55
3:C:51:ILE:HD13	3:C:71:ARG:HG2	1.88	0.55
1:B:1159:THR:HG22	1:B:1180:ARG:HA	1.86	0.55
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.34	0.55
1:G:574:VAL:O	1:G:578:ILE:HG12	2.06	0.55
1:G:838:HIS:CD2	1:G:1201:HIS:HB2	2.42	0.55
1:G:3334:TRP:HE1	1:G:3337:ARG:HD2	1.72	0.55
1:G:3440:GLU:HA	1:G:3443:ILE:HG12	1.89	0.55
1:G:3800:LEU:O	1:G:3804:ILE:HG12	2.06	0.55
1:J:574:VAL:O	1:J:578:ILE:HG12	2.06	0.55
1:J:1866:ILE:HG12	1:J:1939:MET:HE1	1.88	0.55
1:J:2454:ARG:HG2	1:J:2458:ARG:HE	1.71	0.55
1:J:2490:MET:SD	1:J:2490:MET:N	2.80	0.55
1:J:4904:PRO:HB3	1:J:4913:ARG:HD3	1.87	0.55
3:C:107:TRP:HE1	3:C:110:PRO:HB2	1.71	0.55
1:B:369:LEU:HB3	1:B:371:VAL:HG23	1.89	0.55
1:B:3699:HIS:HA	1:B:3702:VAL:HG12	1.89	0.55
1:B:4115:SER:HB3	1:B:4122:MET:HE2	1.87	0.55
1:E:111:HIS:HB3	1:E:114:SER:HB2	1.87	0.55
1:E:684:VAL:HG22	1:E:781:VAL:HG12	1.89	0.55
1:E:4240:ASP:OD1	1:E:4668:LEU:HD11	2.07	0.55
1:G:2440:MET:N	1:G:2440:MET:SD	2.78	0.55
1:G:3065:VAL:O	1:G:3069:HIS:ND1	2.40	0.55
1:G:3699:HIS:HA	1:G:3702:VAL:HG12	1.89	0.55
1:J:4833:ASN:HD21	1:J:4935:LEU:HB3	1.71	0.55
3:K:4:LEU:HD21	3:K:97:ALA:HB2	1.88	0.55
1:B:150:MET:HE1	1:B:169:LEU:HB3	1.87	0.55
1:B:3670:GLU:HG3	1:B:3728:ILE:HG23	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:622:THR:HA	1:E:626:LEU:HD13	1.88	0.55
1:E:3246:LEU:HA	1:E:3249:LEU:HD12	1.89	0.55
1:E:5009:TYR:HA	1:E:5012:LYS:HE3	1.88	0.55
1:G:1432:THR:HG23	1:G:1572:ILE:HG23	1.88	0.55
1:G:1866:ILE:HG12	1:G:1939:MET:HE1	1.88	0.55
1:G:2454:ARG:HG2	1:G:2458:ARG:HE	1.71	0.55
1:G:4128:PHE:HA	1:G:4131:ARG:HE	1.70	0.55
1:G:4177:TYR:HE1	1:G:4199:GLU:HB2	1.70	0.55
1:J:172:VAL:HG22	1:J:179:TYR:HA	1.89	0.55
1:J:2653:LYS:HE2	1:J:2661:TRP:HA	1.87	0.55
1:J:3334:TRP:HE1	1:J:3337:ARG:HD2	1.71	0.55
1:B:817:PRO:HD3	1:B:1007:TYR:OH	2.07	0.55
1:B:4128:PHE:HA	1:B:4131:ARG:HE	1.70	0.55
1:E:861:ILE:HG21	1:E:933:LEU:HD22	1.87	0.55
1:E:1734:TYR:HB2	1:E:2141:ALA:HA	1.88	0.55
1:G:817:PRO:HD3	1:G:1007:TYR:OH	2.07	0.55
1:J:12:GLN:NE2	1:J:13:PHE:O	2.39	0.55
1:J:590:LEU:HG	1:J:599:VAL:HG11	1.89	0.55
1:J:838:HIS:CD2	1:J:1201:HIS:HB2	2.41	0.55
1:J:2633:LEU:HB2	1:J:2689:LYS:HE2	1.89	0.55
2:D:78:PRO:HD3	2:D:96:THR:HG22	1.89	0.55
2:I:78:PRO:HD3	2:I:96:THR:HG22	1.89	0.55
1:B:684:VAL:HG22	1:B:781:VAL:HG12	1.88	0.55
1:B:1866:ILE:HG12	1:B:1939:MET:HE1	1.88	0.55
1:B:4651:THR:HG1	1:B:4803:HIS:HE2	1.45	0.55
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.07	0.55
1:E:172:VAL:HG22	1:E:179:TYR:HA	1.89	0.55
1:E:2490:MET:N	1:E:2490:MET:SD	2.80	0.55
1:G:1240:LYS:HE3	1:G:1242:LEU:HB3	1.88	0.55
1:G:2633:LEU:HB2	1:G:2689:LYS:HE2	1.89	0.55
1:G:4240:ASP:OD1	1:G:4668:LEU:HD11	2.07	0.55
1:J:817:PRO:HD3	1:J:1007:TYR:OH	2.07	0.55
1:J:1734:TYR:HB2	1:J:2141:ALA:HA	1.88	0.55
1:J:4654:ALA:O	1:J:4658:ILE:HG12	2.07	0.55
2:I:66:MET:HE2	2:I:70:GLN:HG2	1.87	0.55
1:B:622:THR:HA	1:B:626:LEU:HD13	1.88	0.55
1:E:924:MET:HE1	3:F:106:PRO:HG2	1.88	0.55
1:E:3065:VAL:O	1:E:3069:HIS:ND1	2.40	0.55
1:G:172:VAL:HG22	1:G:179:TYR:HA	1.89	0.55
1:G:360:ALA:HA	1:G:377:ILE:CD1	2.37	0.55
1:G:880:GLU:HA	1:G:967:PRO:HG2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3874:VAL:HG23	1:G:3875:MET:H	1.71	0.55
1:G:4583:SER:HB3	1:G:4630:TYR:HE1	1.72	0.55
1:G:4735:GLU:O	1:G:4739:GLU:HG2	2.07	0.55
1:J:3690:VAL:HB	1:J:3693:LYS:HE3	1.89	0.55
1:J:4952:GLU:O	1:J:4956:THR:HG23	2.06	0.55
1:B:172:VAL:HG22	1:B:179:TYR:HA	1.89	0.54
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.88	0.54
1:B:3955:MET:HB2	1:B:4019:LEU:HD22	1.90	0.54
1:B:4735:GLU:O	1:B:4739:GLU:HG2	2.07	0.54
1:E:1497:GLY:HA2	1:E:1500:PHE:HD2	1.73	0.54
1:E:1815:LEU:HD22	1:E:1845:VAL:HG21	1.88	0.54
1:E:4833:ASN:HD21	1:E:4935:LEU:HB3	1.71	0.54
1:G:4654:ALA:O	1:G:4658:ILE:HG12	2.07	0.54
1:G:4776:GLN:HA	1:G:4779:LYS:HZ3	1.72	0.54
1:J:1497:GLY:HA2	1:J:1500:PHE:HD2	1.72	0.54
3:F:122:GLN:HE21	3:F:124:THR:HG1	1.50	0.54
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.81	0.54
1:B:1623:ARG:NH1	1:B:1623:ARG:HA	2.23	0.54
1:B:3334:TRP:HE1	1:B:3337:ARG:HD2	1.71	0.54
1:E:748:LEU:HD13	1:E:755:ILE:HG12	1.89	0.54
1:E:3440:GLU:HA	1:E:3443:ILE:HG12	1.89	0.54
1:G:2352:VAL:O	1:G:2356:LEU:HG	2.08	0.54
1:J:1432:THR:HG23	1:J:1572:ILE:HG23	1.88	0.54
1:J:1862:ILE:O	1:J:1866:ILE:HG13	2.05	0.54
3:F:39:GLN:HB3	3:F:45:ARG:HB3	1.89	0.54
1:B:3440:GLU:HA	1:B:3443:ILE:HG12	1.89	0.54
1:B:4583:SER:HB3	1:B:4630:TYR:HE1	1.72	0.54
1:E:12:GLN:NE2	1:E:13:PHE:O	2.39	0.54
1:E:548:VAL:HG21	1:E:582:HIS:CD2	2.42	0.54
1:E:1000:ARG:NH2	1:E:1003:GLN:HE22	2.06	0.54
1:E:2442:LEU:HA	1:E:2447:LYS:HZ2	1.72	0.54
1:E:3334:TRP:HE1	1:E:3337:ARG:HD2	1.71	0.54
1:G:684:VAL:HG22	1:G:781:VAL:HG12	1.89	0.54
1:J:2352:VAL:O	1:J:2356:LEU:HG	2.08	0.54
1:J:3670:GLU:HG3	1:J:3728:ILE:HG23	1.88	0.54
1:J:4240:ASP:OD1	1:J:4668:LEU:HD11	2.07	0.54
3:K:39:GLN:HB3	3:K:45:ARG:HB3	1.89	0.54
1:B:1240:LYS:HE3	1:B:1242:LEU:HB3	1.88	0.54
1:B:4240:ASP:OD1	1:B:4668:LEU:HD11	2.07	0.54
1:B:4741:LEU:HB2	1:B:4743:MET:HE1	1.90	0.54
1:E:1445:PRO:HG2	1:E:1501:VAL:HG23	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1623:ARG:NH1	1:E:1623:ARG:HA	2.23	0.54
1:E:4583:SER:HB3	1:E:4630:TYR:HE1	1.72	0.54
1:G:150:MET:HE1	1:G:169:LEU:HB3	1.87	0.54
1:G:1623:ARG:HA	1:G:1623:ARG:NH1	2.23	0.54
1:G:4741:LEU:HB2	1:G:4743:MET:HE1	1.89	0.54
1:J:111:HIS:HB3	1:J:114:SER:HB2	1.88	0.54
1:J:4741:LEU:HB2	1:J:4743:MET:HE1	1.89	0.54
1:J:4767:TRP:O	1:J:4771:ILE:HG12	2.08	0.54
2:H:78:PRO:HD3	2:H:96:THR:HG22	1.89	0.54
3:M:39:GLN:HB3	3:M:45:ARG:HB3	1.89	0.54
1:B:907:LEU:O	1:B:963:ASN:ND2	2.41	0.54
1:B:2490:MET:SD	1:B:2490:MET:N	2.80	0.54
1:E:499:THR:HG23	1:E:502:HIS:H	1.73	0.54
1:E:728:ARG:NH2	1:E:1489:CYS:SG	2.81	0.54
1:E:3955:MET:HB2	1:E:4019:LEU:HD22	1.90	0.54
1:G:1497:GLY:HA2	1:G:1500:PHE:HD2	1.73	0.54
1:G:3246:LEU:HA	1:G:3249:LEU:HD12	1.89	0.54
1:G:4942:GLU:O	1:G:4946:GLN:HG3	2.08	0.54
1:J:1000:ARG:NH2	1:J:1003:GLN:HE22	2.06	0.54
1:J:1445:PRO:HG2	1:J:1501:VAL:HG23	1.90	0.54
3:F:107:TRP:HE1	3:F:110:PRO:HB2	1.73	0.54
1:B:206:CYS:HB3	1:B:271:GLY:H	1.73	0.54
1:B:3690:VAL:HB	1:B:3693:LYS:HE3	1.89	0.54
1:E:2440:MET:N	1:E:2440:MET:SD	2.78	0.54
1:E:4077:PHE:O	1:E:4081:VAL:HG23	2.08	0.54
1:G:247:TYR:HB2	1:G:374:LYS:HB2	1.90	0.54
1:G:2442:LEU:HA	1:G:2447:LYS:HZ2	1.71	0.54
1:G:2970:SER:HB3	1:G:2998:PHE:CE2	2.42	0.54
1:G:3981:ALA:HA	1:G:3986:TRP:CZ2	2.38	0.54
1:J:2970:SER:HB3	1:J:2998:PHE:CE2	2.42	0.54
1:J:3955:MET:HB2	1:J:4019:LEU:HD22	1.89	0.54
1:J:4077:PHE:O	1:J:4081:VAL:HG23	2.08	0.54
2:A:78:PRO:HD3	2:A:96:THR:HG22	1.89	0.54
1:B:4952:GLU:O	1:B:4956:THR:HG23	2.06	0.54
1:E:4654:ALA:O	1:E:4658:ILE:HG12	2.07	0.54
1:E:4767:TRP:O	1:E:4771:ILE:HG12	2.08	0.54
1:E:4942:GLU:O	1:E:4946:GLN:HG3	2.08	0.54
1:E:4952:GLU:O	1:E:4956:THR:HG23	2.06	0.54
1:G:622:THR:HA	1:G:626:LEU:HD13	1.88	0.54
1:G:1000:ARG:NH2	1:G:1003:GLN:HE22	2.06	0.54
1:G:3955:MET:HB2	1:G:4019:LEU:HD22	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3699:HIS:HA	1:J:3702:VAL:HG12	1.89	0.54
1:J:4776:GLN:HA	1:J:4779:LYS:HZ3	1.73	0.54
1:J:4942:GLU:O	1:J:4946:GLN:HG3	2.08	0.54
3:C:39:GLN:HB3	3:C:45:ARG:HB3	1.89	0.54
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.08	0.54
1:E:206:CYS:HB3	1:E:271:GLY:H	1.73	0.54
1:E:817:PRO:HD3	1:E:1007:TYR:OH	2.07	0.54
1:E:880:GLU:HA	1:E:967:PRO:HG2	1.88	0.54
1:E:2352:VAL:O	1:E:2356:LEU:HG	2.08	0.54
1:E:4776:GLN:HA	1:E:4779:LYS:HZ3	1.73	0.54
1:J:206:CYS:HB3	1:J:271:GLY:H	1.73	0.54
1:J:880:GLU:HA	1:J:967:PRO:HG2	1.88	0.54
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.42	0.54
1:B:4776:GLN:HA	1:B:4779:LYS:HZ3	1.71	0.54
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.08	0.54
1:E:1498:GLY:HA2	1:E:1501:VAL:HG12	1.90	0.54
1:E:3690:VAL:HB	1:E:3693:LYS:HE3	1.89	0.54
1:J:684:VAL:HG22	1:J:781:VAL:HG12	1.89	0.54
1:J:748:LEU:HD13	1:J:755:ILE:HG12	1.89	0.54
1:J:917:GLU:OE2	3:K:101:PRO:HB2	2.08	0.54
1:J:4735:GLU:O	1:J:4739:GLU:HG2	2.07	0.54
1:B:917:GLU:OE2	3:C:101:PRO:HB2	2.08	0.54
1:B:3337:ARG:HD3	1:B:3337:ARG:C	2.32	0.54
1:E:3337:ARG:HD3	1:E:3337:ARG:C	2.33	0.54
1:E:4741:LEU:HB2	1:E:4743:MET:HE1	1.89	0.54
1:G:626:LEU:HB3	2:H:89:GLY:O	2.08	0.54
1:G:1445:PRO:HG2	1:G:1501:VAL:HG23	1.90	0.54
1:G:3337:ARG:HD3	1:G:3337:ARG:C	2.32	0.54
1:G:4077:PHE:O	1:G:4081:VAL:HG23	2.08	0.54
1:B:728:ARG:HE	1:B:1487:LEU:HD12	1.73	0.53
1:B:1497:GLY:HA2	1:B:1500:PHE:HD2	1.72	0.53
1:B:4767:TRP:O	1:B:4771:ILE:HG12	2.08	0.53
1:E:728:ARG:HE	1:E:1487:LEU:HD12	1.73	0.53
1:E:4735:GLU:O	1:E:4739:GLU:HG2	2.07	0.53
1:G:1498:GLY:HA2	1:G:1501:VAL:HG12	1.90	0.53
1:J:3440:GLU:HA	1:J:3443:ILE:HG12	1.89	0.53
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.08	0.53
1:E:2747:ILE:H	1:E:2814:LYS:HZ2	1.56	0.53
1:G:907:LEU:O	1:G:963:ASN:ND2	2.41	0.53
1:G:3766:GLN:HA	1:G:3769:ARG:NE	2.24	0.53
1:J:3695:PRO:HB2	1:J:3699:HIS:HB3	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4583:SER:HB3	1:J:4630:TYR:HE1	1.72	0.53
1:B:248:GLU:HA	1:B:372:LEU:O	2.08	0.53
1:B:1445:PRO:HG2	1:B:1501:VAL:HG23	1.90	0.53
1:B:3069:HIS:O	1:B:3073:ARG:HG3	2.08	0.53
1:B:3246:LEU:HA	1:B:3249:LEU:HD12	1.89	0.53
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.09	0.53
1:E:248:GLU:HG3	1:E:252:VAL:HG11	1.91	0.53
1:E:2970:SER:HB3	1:E:2998:PHE:CE2	2.42	0.53
1:E:3069:HIS:O	1:E:3073:ARG:HG3	2.08	0.53
1:E:3776:ALA:HB2	1:E:3812:VAL:HG23	1.90	0.53
1:G:206:CYS:HB3	1:G:271:GLY:H	1.73	0.53
1:G:728:ARG:NH2	1:G:1489:CYS:SG	2.81	0.53
1:G:1758:ARG:NH1	1:G:2037:ASP:OD1	2.42	0.53
1:G:3069:HIS:O	1:G:3073:ARG:HG3	2.08	0.53
1:G:4767:TRP:O	1:G:4771:ILE:HG12	2.08	0.53
1:G:4943:LEU:O	1:G:4947:GLN:HG2	2.08	0.53
1:J:1042:ALA:O	1:J:1045:THR:OG1	2.20	0.53
1:J:2381:GLU:O	1:J:2385:ARG:HG2	2.08	0.53
1:J:2924:GLN:O	1:J:2928:LYS:HG2	2.09	0.53
3:C:44:GLN:HE22	3:C:46:GLU:HB3	1.74	0.53
3:C:111:ASN:HA	3:C:114:TYR:CD2	2.37	0.53
1:B:1000:ARG:NH2	1:B:1003:GLN:HE22	2.06	0.53
1:B:1498:GLY:HA2	1:B:1501:VAL:HG12	1.90	0.53
1:B:2381:GLU:O	1:B:2385:ARG:HG2	2.08	0.53
1:E:248:GLU:HB3	1:E:373:LYS:CA	2.38	0.53
1:E:1758:ARG:NH1	1:E:2037:ASP:OD1	2.42	0.53
1:E:2978:GLU:HB2	1:E:3053:ARG:HE	1.74	0.53
1:E:3695:PRO:HB2	1:E:3699:HIS:HB3	1.91	0.53
1:E:3699:HIS:HA	1:E:3702:VAL:HG12	1.89	0.53
1:G:499:THR:HG23	1:G:502:HIS:H	1.73	0.53
1:G:1433:TYR:HB3	1:G:1575:LEU:HD23	1.90	0.53
1:J:1433:TYR:HB3	1:J:1575:LEU:HD23	1.90	0.53
1:J:3337:ARG:HD3	1:J:3337:ARG:C	2.32	0.53
1:J:3766:GLN:HA	1:J:3769:ARG:NE	2.24	0.53
1:B:3031:ALA:O	1:B:3036:LYS:NZ	2.37	0.53
1:B:3695:PRO:HB2	1:B:3699:HIS:HB3	1.91	0.53
1:G:748:LEU:HD13	1:G:755:ILE:HG12	1.89	0.53
1:J:499:THR:HG23	1:J:502:HIS:H	1.73	0.53
1:J:2978:GLU:HB2	1:J:3053:ARG:HE	1.74	0.53
1:J:4943:LEU:O	1:J:4947:GLN:HG2	2.08	0.53
1:B:748:LEU:HD13	1:B:755:ILE:HG12	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1449:TRP:HB3	1:B:1494:MET:SD	2.49	0.53
1:B:2633:LEU:HB2	1:B:2689:LYS:HE2	1.89	0.53
1:J:131:LEU:HD11	1:J:178:ARG:HH11	1.74	0.53
1:J:907:LEU:O	1:J:963:ASN:ND2	2.41	0.53
1:J:1623:ARG:NH1	1:J:1623:ARG:HA	2.22	0.53
1:B:1221:GLU:HB2	1:B:1223:PHE:HD2	1.74	0.53
1:B:2970:SER:HB3	1:B:2998:PHE:CE2	2.43	0.53
1:E:131:LEU:HD11	1:E:178:ARG:HH11	1.74	0.53
1:G:213:TYR:C	1:G:341:TYR:HB2	2.34	0.53
1:J:213:TYR:C	1:J:341:TYR:HB2	2.34	0.53
1:J:1291:LEU:HD12	1:J:1550:PRO:HG2	1.91	0.53
1:J:2096:GLU:O	1:J:2100:HIS:ND1	2.42	0.53
1:J:3776:ALA:HB2	1:J:3812:VAL:HG23	1.91	0.53
1:B:499:THR:HG23	1:B:502:HIS:H	1.73	0.53
1:B:2978:GLU:HB2	1:B:3053:ARG:HE	1.74	0.53
1:E:213:TYR:C	1:E:341:TYR:HB2	2.34	0.53
1:E:907:LEU:O	1:E:963:ASN:ND2	2.41	0.53
1:E:1449:TRP:HB3	1:E:1494:MET:SD	2.49	0.53
1:E:2096:GLU:O	1:E:2100:HIS:ND1	2.42	0.53
1:E:2924:GLN:O	1:E:2928:LYS:HG2	2.09	0.53
1:E:3768:SER:HA	1:E:3771:HIS:CD2	2.44	0.53
1:G:1449:TRP:HB3	1:G:1494:MET:SD	2.49	0.53
1:G:2096:GLU:O	1:G:2100:HIS:ND1	2.42	0.53
1:G:3188:PRO:HB3	1:G:3334:TRP:CZ3	2.44	0.53
1:G:3768:SER:HA	1:G:3771:HIS:CD2	2.44	0.53
1:J:2689:LYS:O	1:J:2993:GLN:NE2	2.42	0.53
1:J:3188:PRO:HB3	1:J:3334:TRP:CZ3	2.44	0.53
2:A:78:PRO:O	2:A:83:GLY:N	2.40	0.53
3:F:34:MET:CE	3:F:95:CYS:HB2	2.39	0.53
1:B:248:GLU:HG3	1:B:252:VAL:HG11	1.91	0.53
1:B:1433:TYR:HB3	1:B:1575:LEU:HD23	1.90	0.53
1:B:2588:ARG:HH12	1:B:2734:ASN:HD21	1.57	0.53
1:E:103:TYR:HB2	1:E:159:GLU:HA	1.91	0.53
1:E:2273:LEU:HD11	1:E:2334:PHE:HB2	1.91	0.53
1:E:2588:ARG:HH12	1:E:2734:ASN:HD21	1.57	0.53
1:E:2633:LEU:HB2	1:E:2689:LYS:HE2	1.89	0.53
1:G:1221:GLU:HB2	1:G:1223:PHE:HD2	1.74	0.53
1:G:3695:PRO:HB2	1:G:3699:HIS:HB3	1.91	0.53
1:J:248:GLU:HG3	1:J:252:VAL:HG11	1.91	0.53
1:J:728:ARG:NH2	1:J:1489:CYS:SG	2.81	0.53
1:J:1449:TRP:HB3	1:J:1494:MET:SD	2.48	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1498:GLY:HA2	1:J:1501:VAL:HG12	1.90	0.53
1:J:1758:ARG:NH1	1:J:2037:ASP:OD1	2.42	0.53
1:J:3208:PRO:HB3	1:J:3236:VAL:HB	1.91	0.53
1:J:3399:SER:O	1:J:3403:ARG:HG3	2.09	0.53
3:C:105:ASN:OD1	3:C:107:TRP:HB3	2.09	0.53
3:K:44:GLN:HE22	3:K:46:GLU:HB3	1.74	0.53
1:B:648:ILE:HD11	1:B:793:LEU:HD13	1.91	0.53
1:B:2096:GLU:O	1:B:2100:HIS:ND1	2.42	0.53
1:B:2689:LYS:O	1:B:2993:GLN:NE2	2.42	0.53
1:B:2924:GLN:O	1:B:2928:LYS:HG2	2.09	0.53
1:B:3836:MET:HE3	1:B:3918:CYS:HB3	1.91	0.53
1:E:1221:GLU:HB2	1:E:1223:PHE:HD2	1.74	0.53
1:E:3720:TYR:HA	1:E:3723:MET:HE3	1.91	0.53
1:G:131:LEU:HD11	1:G:178:ARG:HH11	1.74	0.53
1:G:648:ILE:HD11	1:G:793:LEU:HD13	1.91	0.53
1:G:1291:LEU:HD12	1:G:1550:PRO:HG2	1.91	0.53
1:G:2689:LYS:O	1:G:2993:GLN:NE2	2.42	0.53
1:G:2924:GLN:O	1:G:2928:LYS:HG2	2.09	0.53
1:G:2978:GLU:HB2	1:G:3053:ARG:HE	1.74	0.53
1:G:2997:PHE:O	1:G:3001:ILE:HG22	2.10	0.53
1:J:548:VAL:HG21	1:J:582:HIS:CD2	2.42	0.53
1:J:728:ARG:HE	1:J:1487:LEU:HD12	1.73	0.53
1:J:2902:HIS:HB3	1:J:2905:LEU:HB2	1.91	0.53
1:J:3720:TYR:HA	1:J:3723:MET:HE3	1.91	0.53
1:E:3836:MET:HE3	1:E:3918:CYS:HB3	1.91	0.52
1:E:3841:VAL:HG22	1:E:3842:LEU:HD23	1.91	0.52
1:G:3399:SER:O	1:G:3403:ARG:HG3	2.09	0.52
1:G:3720:TYR:HA	1:G:3723:MET:HE3	1.91	0.52
1:J:648:ILE:HD11	1:J:793:LEU:HD13	1.91	0.52
2:H:23:VAL:HG12	2:H:47:LYS:HG3	1.91	0.52
1:B:103:TYR:HB2	1:B:159:GLU:HA	1.91	0.52
1:B:3766:GLN:HA	1:B:3769:ARG:NE	2.24	0.52
1:E:247:TYR:CD2	1:E:374:LYS:HB2	2.44	0.52
1:E:870:ILE:O	1:E:874:LEU:HG	2.09	0.52
1:E:3208:PRO:HB3	1:E:3236:VAL:HB	1.91	0.52
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.09	0.52
1:G:728:ARG:HE	1:G:1487:LEU:HD12	1.73	0.52
1:G:993:HIS:HE1	1:G:1020:ARG:HB3	1.75	0.52
1:G:2273:LEU:HD11	1:G:2334:PHE:HB2	1.91	0.52
1:G:2381:GLU:O	1:G:2385:ARG:HG2	2.08	0.52
1:G:3836:MET:HE3	1:G:3918:CYS:HB3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4651:THR:HG1	1:G:4803:HIS:HE2	1.46	0.52
1:J:1221:GLU:HB2	1:J:1223:PHE:HD2	1.74	0.52
1:J:2273:LEU:HD11	1:J:2334:PHE:HB2	1.91	0.52
1:J:3836:MET:HE3	1:J:3918:CYS:HB3	1.91	0.52
2:A:23:VAL:HG12	2:A:47:LYS:HG3	1.91	0.52
1:B:131:LEU:HD11	1:B:178:ARG:HH11	1.74	0.52
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.44	0.52
1:E:921:ASN:O	1:E:924:MET:HG2	2.10	0.52
1:E:3036:LYS:HD3	1:E:3076:ASP:HB3	1.92	0.52
1:E:3188:PRO:HB3	1:E:3334:TRP:CZ3	2.44	0.52
1:J:993:HIS:HE1	1:J:1020:ARG:HB3	1.75	0.52
1:J:2588:ARG:HH12	1:J:2734:ASN:HD21	1.57	0.52
1:J:3270:ILE:H	1:J:3270:ILE:HD12	1.74	0.52
3:F:105:ASN:OD1	3:F:107:TRP:HB3	2.09	0.52
3:K:105:ASN:OD1	3:K:107:TRP:HB3	2.09	0.52
1:B:213:TYR:C	1:B:341:TYR:HB2	2.34	0.52
1:B:870:ILE:O	1:B:874:LEU:HG	2.09	0.52
1:B:993:HIS:HE1	1:B:1020:ARG:HB3	1.75	0.52
1:B:1758:ARG:NH1	1:B:2037:ASP:OD1	2.42	0.52
1:B:2747:ILE:H	1:B:2814:LYS:HZ2	1.57	0.52
1:B:3034:LYS:HA	1:B:3037:GLU:HG3	1.91	0.52
1:E:648:ILE:HD11	1:E:793:LEU:HD13	1.91	0.52
1:E:747:CYS:HB2	1:E:808:TYR:CE2	2.45	0.52
1:E:3034:LYS:HA	1:E:3037:GLU:HG3	1.91	0.52
1:E:3766:GLN:HA	1:E:3769:ARG:NE	2.24	0.52
1:G:248:GLU:HB3	1:G:373:LYS:HA	1.92	0.52
1:G:1691:GLN:HE22	1:G:1803:PRO:HD2	1.75	0.52
1:G:2588:ARG:HH12	1:G:2734:ASN:HD21	1.57	0.52
1:G:2627:VAL:HG22	1:G:2678:LEU:HD22	1.90	0.52
1:G:2902:HIS:HB3	1:G:2905:LEU:HB2	1.91	0.52
2:H:78:PRO:O	2:H:83:GLY:N	2.40	0.52
3:F:44:GLN:HE22	3:F:46:GLU:HB3	1.74	0.52
1:B:1291:LEU:HD12	1:B:1550:PRO:HG2	1.91	0.52
1:B:2273:LEU:HD11	1:B:2334:PHE:HB2	1.91	0.52
1:B:3036:LYS:HD3	1:B:3076:ASP:HB3	1.92	0.52
1:B:3548:GLU:HG2	1:B:3552:PHE:CE2	2.45	0.52
1:E:437:PRO:HB2	1:E:440:ALA:HB3	1.91	0.52
1:E:625:LEU:HD12	1:E:626:LEU:HD12	1.92	0.52
1:E:1291:LEU:HD12	1:E:1550:PRO:HG2	1.91	0.52
1:E:1691:GLN:HE22	1:E:1803:PRO:HD2	1.75	0.52
1:G:747:CYS:HB2	1:G:808:TYR:CE2	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:747:CYS:SG	1:J:756:SER:HB2	2.50	0.52
1:J:1130:GLN:HG2	1:J:1138:PRO:HA	1.91	0.52
1:J:1232:ARG:NH2	1:J:1828:ASP:O	2.43	0.52
1:J:2627:VAL:HG22	1:J:2678:LEU:HD22	1.90	0.52
1:B:1130:GLN:HG2	1:B:1138:PRO:HA	1.91	0.52
1:B:1691:GLN:HE22	1:B:1803:PRO:HD2	1.75	0.52
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	1.92	0.52
1:B:2997:PHE:O	1:B:3001:ILE:HG22	2.10	0.52
1:E:266:ARG:HG2	1:E:268:SER:H	1.74	0.52
1:E:1433:TYR:HB3	1:E:1575:LEU:HD23	1.90	0.52
1:E:2381:GLU:O	1:E:2385:ARG:HG2	2.08	0.52
1:E:2997:PHE:O	1:E:3001:ILE:HG22	2.10	0.52
1:J:365:LYS:O	1:J:369:LEU:HG	2.09	0.52
3:M:44:GLN:HE22	3:M:46:GLU:HB3	1.74	0.52
3:M:102:ASN:HB2	3:M:104:TYR:CE2	2.45	0.52
1:B:341:TYR:CE2	1:B:392:ARG:HB2	2.45	0.52
1:B:622:THR:HG23	1:B:626:LEU:HD22	1.92	0.52
1:E:341:TYR:CE2	1:E:392:ARG:HB2	2.45	0.52
1:E:993:HIS:HE1	1:E:1020:ARG:HB3	1.75	0.52
1:E:1042:ALA:O	1:E:1045:THR:OG1	2.20	0.52
1:E:3270:ILE:H	1:E:3270:ILE:HD12	1.74	0.52
1:G:634:GLN:HG3	2:H:34:LYS:NZ	2.25	0.52
1:G:870:ILE:O	1:G:874:LEU:HG	2.09	0.52
1:G:3841:VAL:HG22	1:G:3842:LEU:HD23	1.92	0.52
1:J:792:LEU:HA	1:J:798:GLY:HA3	1.92	0.52
1:J:1439:VAL:HB	1:J:1514:LEU:HB3	1.92	0.52
1:J:3069:HIS:O	1:J:3073:ARG:HG3	2.08	0.52
1:B:883:ALA:HA	1:B:886:ARG:HE	1.74	0.52
1:B:1727:ARG:HH12	1:B:1851:MET:HE1	1.75	0.52
1:B:3511:VAL:HG23	1:B:3515:LYS:HE2	1.92	0.52
1:B:3720:TYR:HA	1:B:3723:MET:HE3	1.91	0.52
1:B:3841:VAL:HG22	1:B:3842:LEU:HD23	1.91	0.52
1:E:1035:ASN:OD1	3:F:109:THR:OG1	2.26	0.52
1:E:2627:VAL:HG22	1:E:2678:LEU:HD22	1.90	0.52
1:E:3511:VAL:HG23	1:E:3515:LYS:HE2	1.92	0.52
1:E:4020:GLN:HA	1:E:4023:MET:HG3	1.91	0.52
1:G:622:THR:HG23	1:G:626:LEU:HD22	1.92	0.52
1:G:4020:GLN:HA	1:G:4023:MET:HG3	1.91	0.52
1:J:76:ARG:O	1:J:79:GLN:HG3	2.10	0.52
1:J:266:ARG:HG2	1:J:268:SER:H	1.74	0.52
1:J:3031:ALA:O	1:J:3036:LYS:NZ	2.37	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3316:LEU:HD22	1:J:3353:LEU:HD13	1.92	0.52
1:J:3548:GLU:HG2	1:J:3552:PHE:CE2	2.45	0.52
1:B:866:HIS:CD2	1:B:941:MET:HE3	2.45	0.52
1:B:881:LEU:O	1:B:885:THR:HG23	2.10	0.52
1:B:920:TYR:O	1:B:923:GLN:HG2	2.10	0.52
1:B:3188:PRO:HB3	1:B:3334:TRP:CZ3	2.44	0.52
1:E:76:ARG:O	1:E:79:GLN:HG3	2.10	0.52
1:E:792:LEU:HA	1:E:798:GLY:HA3	1.91	0.52
1:E:3031:ALA:O	1:E:3036:LYS:NZ	2.37	0.52
1:E:3592:ILE:HG12	1:E:3595:ARG:HH21	1.74	0.52
1:G:248:GLU:HG3	1:G:252:VAL:HG11	1.91	0.52
1:G:548:VAL:HG21	1:G:582:HIS:CD2	2.42	0.52
1:J:883:ALA:HA	1:J:886:ARG:HE	1.74	0.52
1:J:960:MET:HG3	1:J:966:LYS:HE3	1.92	0.52
1:J:2997:PHE:O	1:J:3001:ILE:HG22	2.10	0.52
1:J:3051:ARG:HH22	1:J:3102:ASP:HB2	1.75	0.52
1:J:4229:GLU:OE1	1:J:4229:GLU:N	2.37	0.52
2:D:78:PRO:O	2:D:83:GLY:N	2.40	0.52
3:M:111:ASN:HA	3:M:114:TYR:HD2	1.75	0.52
1:B:625:LEU:HD12	1:B:626:LEU:HD12	1.92	0.52
1:B:1232:ARG:NH2	1:B:1828:ASP:O	2.43	0.52
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.74	0.52
1:B:3592:ILE:HG12	1:B:3595:ARG:HH21	1.74	0.52
1:B:3756:LYS:O	1:B:3760:LYS:HG2	2.10	0.52
1:E:866:HIS:CD2	1:E:941:MET:HE3	2.45	0.52
1:E:1128:ARG:HH12	1:E:1132:TRP:HZ2	1.58	0.52
1:E:3548:GLU:HG2	1:E:3552:PHE:CE2	2.45	0.52
1:G:76:ARG:O	1:G:79:GLN:HG3	2.10	0.52
1:G:747:CYS:SG	1:G:756:SER:HB2	2.50	0.52
1:G:1232:ARG:NH2	1:G:1828:ASP:O	2.43	0.52
1:G:3051:ARG:HH22	1:G:3102:ASP:HB2	1.75	0.52
1:G:3270:ILE:H	1:G:3270:ILE:HD12	1.74	0.52
1:J:246:TYR:CG	1:J:373:LYS:HB3	2.45	0.52
1:J:625:LEU:HD12	1:J:626:LEU:HD12	1.92	0.52
1:J:1128:ARG:HH12	1:J:1132:TRP:HZ2	1.58	0.52
1:J:3946:GLN:OE1	1:J:3949:ARG:NH2	2.43	0.52
1:J:4020:GLN:HA	1:J:4023:MET:HG3	1.91	0.52
1:B:276:TRP:HZ3	1:B:346:CYS:HA	1.75	0.51
1:B:747:CYS:SG	1:B:756:SER:HB2	2.50	0.51
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.93	0.51
1:B:1243:PRO:O	1:B:1458:HIS:ND1	2.31	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.91	0.51
1:B:3405:LEU:HG	1:B:3409:TYR:CE1	2.45	0.51
1:E:3399:SER:O	1:E:3403:ARG:HG3	2.09	0.51
1:G:866:HIS:CD2	1:G:941:MET:HE3	2.45	0.51
1:G:920:TYR:O	1:G:923:GLN:HG2	2.10	0.51
1:G:3208:PRO:HB3	1:G:3236:VAL:HB	1.91	0.51
1:G:3405:LEU:HG	1:G:3409:TYR:CE1	2.46	0.51
1:J:547:VAL:HB	1:J:560:ILE:HD11	1.93	0.51
1:J:747:CYS:HB2	1:J:808:TYR:CE2	2.45	0.51
1:J:2142:TYR:CG	1:J:2197:LEU:HD13	2.45	0.51
1:J:3768:SER:HA	1:J:3771:HIS:CD2	2.44	0.51
3:M:19:ARG:HE	3:M:79:TYR:HB3	1.75	0.51
1:B:921:ASN:O	1:B:924:MET:HG2	2.10	0.51
1:B:2442:LEU:HA	1:B:2447:LYS:HZ2	1.75	0.51
1:B:2574:HIS:CD2	1:B:2575:ARG:HG2	2.46	0.51
1:B:3208:PRO:HB3	1:B:3236:VAL:HB	1.91	0.51
1:E:1232:ARG:NH2	1:E:1828:ASP:O	2.43	0.51
1:E:2689:LYS:O	1:E:2993:GLN:NE2	2.42	0.51
1:E:3341:PHE:O	1:E:3344:PRO:HD2	2.11	0.51
1:E:3536:ALA:HB2	1:E:3553:LEU:HD21	1.92	0.51
1:G:547:VAL:HB	1:G:560:ILE:HD11	1.92	0.51
1:G:883:ALA:HA	1:G:886:ARG:HE	1.74	0.51
1:G:2574:HIS:CD2	1:G:2575:ARG:HG2	2.46	0.51
1:J:866:HIS:CD2	1:J:941:MET:HE3	2.45	0.51
1:J:921:ASN:O	1:J:924:MET:HG2	2.10	0.51
1:J:1778:SER:HB2	1:J:1798:LEU:HB2	1.92	0.51
1:J:1870:VAL:HG11	1:J:2097:LEU:HD22	1.92	0.51
1:J:3536:ALA:HB2	1:J:3553:LEU:HD21	1.92	0.51
1:B:1439:VAL:HB	1:B:1514:LEU:HB3	1.92	0.51
1:B:3776:ALA:HB2	1:B:3812:VAL:HG23	1.90	0.51
1:B:4020:GLN:HA	1:B:4023:MET:HG3	1.91	0.51
1:E:626:LEU:HB3	2:D:89:GLY:O	2.10	0.51
1:E:881:LEU:O	1:E:885:THR:HG23	2.10	0.51
1:E:920:TYR:O	1:E:923:GLN:HG2	2.10	0.51
1:E:2362:GLU:HA	1:E:2369:ARG:HH22	1.75	0.51
1:G:3034:LYS:HA	1:G:3037:GLU:HG3	1.91	0.51
1:G:4999:ASP:HB2	1:G:5002:GLU:HG2	1.93	0.51
1:J:965:TYR:O	1:J:967:PRO:HD3	2.11	0.51
1:J:3036:LYS:HD3	1:J:3076:ASP:HB3	1.92	0.51
1:J:3841:VAL:HG22	1:J:3842:LEU:HD23	1.92	0.51
3:C:34:MET:CE	3:C:95:CYS:HB2	2.38	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:ARG:O	1:B:79:GLN:HG3	2.10	0.51
1:B:246:TYR:HE1	1:B:375:LYS:HZ3	1.58	0.51
1:B:547:VAL:HB	1:B:560:ILE:HD11	1.93	0.51
1:B:792:LEU:HA	1:B:798:GLY:HA3	1.92	0.51
1:B:960:MET:HG3	1:B:966:LYS:HE3	1.92	0.51
1:B:2893:GLU:O	1:B:2897:LYS:HG2	2.11	0.51
1:B:3341:PHE:O	1:B:3344:PRO:HD2	2.11	0.51
1:B:3547:GLU:O	1:B:3551:GLU:HG2	2.11	0.51
1:E:747:CYS:SG	1:E:756:SER:HB2	2.50	0.51
1:E:1130:GLN:HG2	1:E:1138:PRO:HA	1.91	0.51
1:E:4999:ASP:HB2	1:E:5002:GLU:HG2	1.93	0.51
1:G:276:TRP:HZ3	1:G:346:CYS:HA	1.75	0.51
1:G:874:LEU:O	1:G:878:ILE:HG12	2.11	0.51
1:G:3592:ILE:HG12	1:G:3595:ARG:HH21	1.74	0.51
1:G:3776:ALA:HB2	1:G:3812:VAL:HG23	1.90	0.51
1:J:870:ILE:O	1:J:874:LEU:HG	2.09	0.51
1:J:985:VAL:HG22	1:J:1043:VAL:HG21	1.93	0.51
1:J:2362:GLU:HA	1:J:2369:ARG:HH22	1.75	0.51
1:J:2574:HIS:CD2	1:J:2575:ARG:HG2	2.46	0.51
1:J:3341:PHE:O	1:J:3344:PRO:HD2	2.11	0.51
1:J:3511:VAL:HG23	1:J:3515:LYS:HE2	1.92	0.51
1:J:3592:ILE:HG12	1:J:3595:ARG:HH21	1.74	0.51
1:J:3756:LYS:O	1:J:3760:LYS:HG2	2.10	0.51
1:J:3775:ALA:HA	1:J:3778:MET:HG3	1.93	0.51
3:K:34:MET:CE	3:K:95:CYS:HB2	2.39	0.51
1:B:747:CYS:HB2	1:B:808:TYR:CE2	2.45	0.51
1:B:3973:CYS:SG	1:B:3976:ASN:HB2	2.51	0.51
1:E:276:TRP:HZ3	1:E:346:CYS:HA	1.75	0.51
1:E:1748:PHE:HD1	1:E:1749:PRO:HD2	1.75	0.51
1:E:2233:CYS:HB2	1:E:2270:SER:HB3	1.93	0.51
1:E:2793:PRO:O	1:E:2797:PHE:N	2.44	0.51
1:G:266:ARG:HG2	1:G:268:SER:H	1.74	0.51
1:G:341:TYR:CE2	1:G:392:ARG:HB2	2.45	0.51
1:G:437:PRO:HB2	1:G:440:ALA:HB3	1.91	0.51
1:G:960:MET:HG3	1:G:966:LYS:HE3	1.92	0.51
1:G:2793:PRO:O	1:G:2797:PHE:N	2.44	0.51
1:J:626:LEU:HB3	2:I:89:GLY:O	2.10	0.51
1:J:1691:GLN:HE22	1:J:1803:PRO:HD2	1.75	0.51
1:J:3405:LEU:HG	1:J:3409:TYR:CE1	2.45	0.51
1:J:3547:GLU:O	1:J:3551:GLU:HG2	2.11	0.51
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:SER:HA	1:B:473:ASN:HD21	1.76	0.51
1:B:870:ILE:HD12	1:B:1051:TYR:CZ	2.46	0.51
1:B:1748:PHE:HD1	1:B:1749:PRO:HD2	1.75	0.51
1:B:2362:GLU:HA	1:B:2369:ARG:HH22	1.76	0.51
1:B:2627:VAL:HG22	1:B:2678:LEU:HD22	1.91	0.51
1:B:2630:VAL:HG13	1:B:2682:ILE:HD11	1.93	0.51
1:B:3316:LEU:HD22	1:B:3353:LEU:HD13	1.92	0.51
1:B:4999:ASP:HB2	1:B:5002:GLU:HG2	1.93	0.51
1:E:909:ASN:HA	1:E:965:TYR:HA	1.92	0.51
1:E:1439:VAL:HB	1:E:1514:LEU:HB3	1.92	0.51
1:E:1964:ARG:O	1:E:1968:LYS:HG3	2.11	0.51
1:E:2902:HIS:HB3	1:E:2905:LEU:HB2	1.91	0.51
1:E:3051:ARG:HH22	1:E:3102:ASP:HB2	1.75	0.51
1:E:3547:GLU:O	1:E:3551:GLU:HG2	2.11	0.51
1:E:3756:LYS:O	1:E:3760:LYS:HG2	2.11	0.51
1:G:103:TYR:HB2	1:G:159:GLU:HA	1.91	0.51
1:G:921:ASN:O	1:G:924:MET:HG2	2.10	0.51
1:J:103:TYR:HB2	1:J:159:GLU:HA	1.91	0.51
1:J:437:PRO:HB2	1:J:440:ALA:HB3	1.91	0.51
1:J:881:LEU:O	1:J:885:THR:HG23	2.10	0.51
1:J:909:ASN:HA	1:J:965:TYR:HA	1.92	0.51
1:J:920:TYR:O	1:J:923:GLN:HG2	2.10	0.51
1:J:2793:PRO:O	1:J:2797:PHE:N	2.44	0.51
1:J:4999:ASP:HB2	1:J:5002:GLU:HG2	1.93	0.51
2:D:23:VAL:HG12	2:D:47:LYS:HG3	1.91	0.51
1:B:874:LEU:O	1:B:878:ILE:HG12	2.11	0.51
1:B:3018:LEU:HD21	1:B:3150:HIS:CE1	2.46	0.51
1:E:870:ILE:HD12	1:E:1051:TYR:CZ	2.46	0.51
1:E:883:ALA:HA	1:E:886:ARG:HE	1.74	0.51
1:E:965:TYR:O	1:E:967:PRO:HD3	2.11	0.51
1:E:1243:PRO:O	1:E:1458:HIS:ND1	2.31	0.51
1:E:1727:ARG:HH12	1:E:1851:MET:HE1	1.75	0.51
1:E:1778:SER:HB2	1:E:1798:LEU:HB2	1.92	0.51
1:E:1870:VAL:HG11	1:E:2097:LEU:HD22	1.91	0.51
1:E:2630:VAL:HG13	1:E:2682:ILE:HD11	1.93	0.51
1:E:3775:ALA:HA	1:E:3778:MET:HG3	1.93	0.51
1:G:1727:ARG:HH12	1:G:1851:MET:HE1	1.75	0.51
1:G:1748:PHE:HD1	1:G:1749:PRO:HD2	1.75	0.51
1:G:3036:LYS:HD3	1:G:3076:ASP:HB3	1.92	0.51
1:G:3341:PHE:O	1:G:3344:PRO:HD2	2.11	0.51
1:G:3548:GLU:HG2	1:G:3552:PHE:CE2	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3194:LEU:HA	1:J:3197:LEU:HG	1.93	0.51
1:B:1778:SER:HB2	1:B:1798:LEU:HB2	1.92	0.51
1:B:4080:TYR:CG	1:B:4096:ALA:HB2	2.46	0.51
1:E:547:VAL:HB	1:E:560:ILE:HD11	1.92	0.51
1:E:874:LEU:O	1:E:878:ILE:HG12	2.11	0.51
1:E:1438:ARG:HG3	1:E:1513:ASP:HB3	1.93	0.51
1:E:1945:TYR:O	1:E:1949:GLN:HG2	2.11	0.51
1:E:3194:LEU:HA	1:E:3197:LEU:HG	1.93	0.51
1:E:3316:LEU:HD22	1:E:3353:LEU:HD13	1.92	0.51
1:E:3400:VAL:HG23	1:E:3403:ARG:HE	1.76	0.51
1:E:3445:TRP:CD1	1:E:3509:LEU:HD22	2.46	0.51
1:G:625:LEU:HD12	1:G:626:LEU:HD12	1.92	0.51
1:G:917:GLU:CD	3:M:101:PRO:HB2	2.36	0.51
1:G:3511:VAL:HG23	1:G:3515:LYS:HE2	1.92	0.51
1:G:3996:PHE:HZ	1:G:4019:LEU:HG	1.76	0.51
1:G:4080:TYR:CG	1:G:4096:ALA:HB2	2.46	0.51
1:J:341:TYR:CE2	1:J:392:ARG:HB2	2.45	0.51
1:J:622:THR:HG23	1:J:626:LEU:HD22	1.92	0.51
1:J:874:LEU:O	1:J:878:ILE:HG12	2.11	0.51
1:J:2175:GLU:O	1:J:2179:ILE:HG12	2.11	0.51
1:J:3034:LYS:HA	1:J:3037:GLU:HG3	1.91	0.51
1:J:3400:VAL:HG23	1:J:3403:ARG:HE	1.76	0.51
1:J:3996:PHE:HZ	1:J:4019:LEU:HG	1.76	0.51
1:J:4243:PHE:O	1:J:4247:ILE:HG13	2.11	0.51
2:D:31:GLN:OE1	2:D:96:THR:N	2.44	0.51
3:F:19:ARG:HE	3:F:79:TYR:HB3	1.75	0.51
3:K:19:ARG:HE	3:K:79:TYR:HB3	1.75	0.51
1:B:365:LYS:O	1:B:369:LEU:HG	2.10	0.51
1:B:909:ASN:HA	1:B:965:TYR:HA	1.92	0.51
1:B:1128:ARG:HH12	1:B:1132:TRP:HZ2	1.58	0.51
1:B:1964:ARG:O	1:B:1968:LYS:HG3	2.11	0.51
1:B:2321:ILE:HD11	1:B:2418:LEU:HB2	1.93	0.51
1:B:3051:ARG:HH22	1:B:3102:ASP:HB2	1.75	0.51
1:E:622:THR:HG23	1:E:626:LEU:HD22	1.92	0.51
1:E:2760:GLU:HA	1:E:2802:LYS:NZ	2.26	0.51
1:E:2893:GLU:O	1:E:2897:LYS:HG2	2.11	0.51
1:G:470:SER:HA	1:G:473:ASN:HD21	1.76	0.51
1:G:489:ASN:OD1	1:G:493:ARG:NH1	2.44	0.51
1:G:881:LEU:O	1:G:885:THR:HG23	2.10	0.51
1:G:1128:ARG:HH12	1:G:1132:TRP:HZ2	1.58	0.51
1:G:1130:GLN:HG2	1:G:1138:PRO:HA	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2142:TYR:CG	1:G:2197:LEU:HD13	2.45	0.51
1:G:3018:LEU:HD21	1:G:3150:HIS:CE1	2.46	0.51
1:G:3946:GLN:OE1	1:G:3949:ARG:NH2	2.43	0.51
1:J:1035:ASN:OD1	3:K:109:THR:OG1	2.26	0.51
1:J:3442:PHE:HE1	1:J:3510:ILE:HG22	1.76	0.51
1:J:3729:MET:HE2	1:J:3800:LEU:HD11	1.93	0.51
1:J:3986:TRP:HB3	1:J:4047:MET:SD	2.51	0.51
2:I:31:GLN:OE1	2:I:96:THR:N	2.44	0.51
1:B:355:LEU:HB3	1:B:378:LEU:HB3	1.93	0.51
1:B:1615:VAL:HG13	1:B:1630:CYS:HB2	1.94	0.51
1:B:2793:PRO:O	1:B:2797:PHE:N	2.44	0.51
1:B:3442:PHE:HE1	1:B:3510:ILE:HG22	1.76	0.51
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.43	0.51
1:E:355:LEU:HB3	1:E:378:LEU:HB3	1.93	0.51
1:E:470:SER:HA	1:E:473:ASN:HD21	1.76	0.51
1:E:3051:ARG:HA	1:E:3131:TYR:CZ	2.46	0.51
1:E:3996:PHE:HZ	1:E:4019:LEU:HG	1.76	0.51
1:G:1439:VAL:HB	1:G:1514:LEU:HB3	1.92	0.51
1:G:1870:VAL:HG11	1:G:2097:LEU:HD22	1.92	0.51
1:G:2321:ILE:HD11	1:G:2418:LEU:HB2	1.93	0.51
1:G:2362:GLU:HA	1:G:2369:ARG:HH22	1.76	0.51
1:G:2893:GLU:O	1:G:2897:LYS:HG2	2.11	0.51
1:G:3051:ARG:HA	1:G:3131:TYR:CZ	2.46	0.51
1:G:4243:PHE:O	1:G:4247:ILE:HG13	2.11	0.51
2:I:23:VAL:HG12	2:I:47:LYS:HG3	1.91	0.51
1:B:764:VAL:HG12	1:B:766:GLY:H	1.77	0.50
1:B:965:TYR:O	1:B:967:PRO:HD3	2.11	0.50
1:B:1945:TYR:O	1:B:1949:GLN:HG2	2.11	0.50
1:B:2233:CYS:HB2	1:B:2270:SER:HB3	1.93	0.50
1:B:3399:SER:O	1:B:3403:ARG:HG3	2.09	0.50
1:B:3889:GLN:HB2	1:B:3967:GLU:HG2	1.93	0.50
1:E:2321:ILE:HD11	1:E:2418:LEU:HB2	1.93	0.50
1:E:3967:GLU:CA	1:E:3970:GLN:HG2	2.40	0.50
1:E:4090:LYS:HD3	1:E:4112:LEU:HD13	1.93	0.50
1:G:2257:LEU:HD22	1:G:2272:PRO:HB3	1.93	0.50
1:G:3316:LEU:HD22	1:G:3353:LEU:HD13	1.92	0.50
1:G:3442:PHE:HE1	1:G:3510:ILE:HG22	1.76	0.50
1:G:3973:CYS:SG	1:G:3976:ASN:HB2	2.51	0.50
1:J:870:ILE:HD12	1:J:1051:TYR:CZ	2.46	0.50
1:J:1748:PHE:HD1	1:J:1749:PRO:HD2	1.75	0.50
1:J:2321:ILE:HD11	1:J:2418:LEU:HB2	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4090:LYS:HD3	1:J:4112:LEU:HD13	1.93	0.50
2:H:31:GLN:OE1	2:H:96:THR:N	2.44	0.50
1:B:2175:GLU:O	1:B:2179:ILE:HG12	2.11	0.50
1:B:3317:GLY:O	1:B:3321:ARG:HG2	2.11	0.50
1:E:960:MET:HG3	1:E:966:LYS:HE3	1.92	0.50
1:E:2142:TYR:CG	1:E:2197:LEU:HD13	2.46	0.50
1:E:2206:THR:O	1:E:2210:VAL:HG23	2.12	0.50
1:E:2574:HIS:CD2	1:E:2575:ARG:HG2	2.46	0.50
1:E:2902:HIS:O	1:E:2905:LEU:HB3	2.11	0.50
1:E:3405:LEU:HG	1:E:3409:TYR:CE1	2.45	0.50
1:G:792:LEU:HA	1:G:798:GLY:HA3	1.92	0.50
1:G:1438:ARG:HG3	1:G:1513:ASP:HB3	1.93	0.50
1:G:2175:GLU:O	1:G:2179:ILE:HG12	2.11	0.50
1:G:2463:LEU:HD21	1:G:2517:PHE:HE1	1.77	0.50
1:G:3756:LYS:O	1:G:3760:LYS:HG2	2.10	0.50
1:J:276:TRP:HZ3	1:J:346:CYS:HA	1.75	0.50
1:J:1615:VAL:HG13	1:J:1630:CYS:HB2	1.93	0.50
1:J:2902:HIS:O	1:J:2905:LEU:HB3	2.12	0.50
1:J:3445:TRP:CD1	1:J:3509:LEU:HD22	2.46	0.50
3:C:19:ARG:HE	3:C:79:TYR:HB3	1.76	0.50
1:B:2142:TYR:CG	1:B:2197:LEU:HD13	2.45	0.50
1:B:2257:LEU:HD22	1:B:2272:PRO:HB3	1.93	0.50
1:B:3400:VAL:HG23	1:B:3403:ARG:HE	1.76	0.50
1:B:3445:TRP:CD1	1:B:3509:LEU:HD22	2.46	0.50
1:B:3996:PHE:HZ	1:B:4019:LEU:HG	1.76	0.50
1:E:251:ALA:C	1:E:255:HIS:HD1	2.19	0.50
1:E:451:TYR:CZ	1:E:474:ARG:HD2	2.47	0.50
1:E:3729:MET:HE2	1:E:3800:LEU:HD11	1.93	0.50
1:G:355:LEU:HB3	1:G:378:LEU:HB3	1.93	0.50
1:G:1778:SER:HB2	1:G:1798:LEU:HB2	1.92	0.50
1:G:2902:HIS:O	1:G:2905:LEU:HB3	2.11	0.50
1:G:3445:TRP:CD1	1:G:3509:LEU:HD22	2.46	0.50
1:G:3775:ALA:HA	1:G:3778:MET:HG3	1.93	0.50
1:G:3986:TRP:HB3	1:G:4047:MET:SD	2.51	0.50
1:J:489:ASN:OD1	1:J:493:ARG:NH1	2.44	0.50
1:J:2463:LEU:HD21	1:J:2517:PHE:HE1	1.77	0.50
3:K:111:ASN:HA	3:K:114:TYR:CD2	2.38	0.50
1:B:247:TYR:HE2	1:B:359:TYR:HA	1.76	0.50
1:B:2902:HIS:O	1:B:2905:LEU:HB3	2.11	0.50
1:B:3986:TRP:HB3	1:B:4047:MET:SD	2.51	0.50
1:E:937:CYS:SG	1:E:938:HIS:N	2.85	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3889:GLN:HB2	1:E:3967:GLU:HG2	1.94	0.50
1:E:3973:CYS:SG	1:E:3976:ASN:HB2	2.51	0.50
1:E:4918:ILE:HA	1:J:4892:ARG:HH22	1.76	0.50
1:G:1581:LEU:HA	1:G:1584:ARG:HE	1.77	0.50
1:G:3536:ALA:HB2	1:G:3553:LEU:HD21	1.92	0.50
1:G:4063:ASP:HB2	1:G:4067:LYS:HE3	1.94	0.50
1:J:937:CYS:SG	1:J:938:HIS:N	2.85	0.50
1:J:1964:ARG:O	1:J:1968:LYS:HG3	2.11	0.50
1:J:2630:VAL:HG13	1:J:2682:ILE:HD11	1.93	0.50
1:J:2760:GLU:HA	1:J:2802:LYS:NZ	2.26	0.50
1:J:3973:CYS:SG	1:J:3976:ASN:HB2	2.51	0.50
1:B:937:CYS:SG	1:B:938:HIS:N	2.85	0.50
1:B:2463:LEU:HD21	1:B:2517:PHE:HE1	1.77	0.50
1:B:3775:ALA:HA	1:B:3778:MET:HG3	1.93	0.50
1:E:764:VAL:HG12	1:E:766:GLY:H	1.77	0.50
1:E:985:VAL:HG22	1:E:1043:VAL:HG21	1.93	0.50
1:E:2814:LYS:HA	1:E:2817:ILE:HG12	1.93	0.50
1:E:3018:LEU:HD21	1:E:3150:HIS:CE1	2.46	0.50
1:G:1973:GLN:HE22	1:G:3641:LEU:H	1.59	0.50
1:J:1727:ARG:HH12	1:J:1851:MET:HE1	1.75	0.50
1:J:2893:GLU:O	1:J:2897:LYS:HG2	2.11	0.50
1:J:4080:TYR:CG	1:J:4096:ALA:HB2	2.46	0.50
1:J:4096:ALA:O	1:J:4099:SER:OG	2.23	0.50
2:A:31:GLN:OE1	2:A:96:THR:N	2.44	0.50
3:M:34:MET:CE	3:M:95:CYS:HB2	2.40	0.50
1:B:360:ALA:HA	1:B:377:ILE:CD1	2.41	0.50
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.12	0.50
1:B:2755:ILE:HG22	1:B:2810:LYS:HZ2	1.76	0.50
1:B:2760:GLU:HA	1:B:2802:LYS:NZ	2.26	0.50
1:E:360:ALA:HA	1:E:377:ILE:CD1	2.41	0.50
1:E:1860:LYS:O	1:E:1864:LYS:HG2	2.12	0.50
1:E:3442:PHE:HE1	1:E:3510:ILE:HG22	1.76	0.50
1:G:909:ASN:HA	1:G:965:TYR:HA	1.92	0.50
1:G:1615:VAL:HG13	1:G:1630:CYS:HB2	1.94	0.50
1:G:2760:GLU:HA	1:G:2802:LYS:NZ	2.26	0.50
1:G:3317:GLY:O	1:G:3321:ARG:HG2	2.11	0.50
1:J:470:SER:HA	1:J:473:ASN:HD21	1.76	0.50
1:J:3018:LEU:HD21	1:J:3150:HIS:CE1	2.46	0.50
3:K:38:ARG:O	3:K:45:ARG:HA	2.12	0.50
1:B:932:LEU:HD13	1:B:988:LEU:HD11	1.94	0.50
1:B:4063:ASP:HB2	1:B:4067:LYS:HE3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4779:LYS:HA	1:B:4782:VAL:HG22	1.94	0.50
1:E:932:LEU:HD13	1:E:988:LEU:HD11	1.94	0.50
1:G:985:VAL:HG22	1:G:1043:VAL:HG21	1.93	0.50
1:G:1860:LYS:O	1:G:1864:LYS:HG2	2.12	0.50
1:G:4577:LEU:O	1:G:4580:TYR:HD1	1.95	0.50
1:J:144:GLU:HA	1:J:147:TRP:HD1	1.77	0.50
1:J:251:ALA:C	1:J:255:HIS:HD1	2.19	0.50
1:J:2206:THR:O	1:J:2210:VAL:HG23	2.12	0.50
1:J:2814:LYS:HA	1:J:2817:ILE:HG12	1.93	0.50
1:B:526:LEU:HD11	1:B:540:PHE:CZ	2.47	0.50
1:E:144:GLU:HA	1:E:147:TRP:HD1	1.77	0.50
1:E:823:LEU:HD12	1:E:1617:THR:HB	1.94	0.50
1:E:2764:GLU:HG2	1:E:2857:PRO:HD3	1.94	0.50
1:E:4779:LYS:HA	1:E:4782:VAL:HG22	1.94	0.50
1:G:251:ALA:C	1:G:255:HIS:HD1	2.19	0.50
1:G:891:TRP:HE1	1:G:904:HIS:HB2	1.76	0.50
1:G:1042:ALA:O	1:G:1045:THR:OG1	2.20	0.50
1:G:1964:ARG:O	1:G:1968:LYS:HG3	2.11	0.50
1:G:3547:GLU:O	1:G:3551:GLU:HG2	2.11	0.50
1:G:3641:LEU:HD12	1:G:3644:LEU:HD12	1.94	0.50
1:J:1438:ARG:HG3	1:J:1513:ASP:HB3	1.93	0.50
1:J:1581:LEU:HA	1:J:1584:ARG:HE	1.77	0.50
1:J:2764:GLU:HG2	1:J:2857:PRO:HD3	1.94	0.50
1:J:2883:HIS:CE1	1:J:2911:LEU:HD21	2.47	0.50
1:J:3403:ARG:HG2	1:J:3458:PHE:CD1	2.47	0.50
1:J:4577:LEU:O	1:J:4580:TYR:HD1	1.95	0.50
1:B:823:LEU:HD12	1:B:1617:THR:HB	1.94	0.50
1:B:1438:ARG:HG3	1:B:1513:ASP:HB3	1.93	0.50
1:B:2439:GLU:CD	1:B:2508:ARG:HH22	2.20	0.50
1:B:2883:HIS:CE1	1:B:2911:LEU:HD21	2.47	0.50
1:B:3967:GLU:CA	1:B:3970:GLN:HG2	2.39	0.50
1:B:4229:GLU:OE1	1:B:4229:GLU:N	2.37	0.50
1:E:73:LEU:O	1:E:106:ALA:N	2.45	0.50
1:E:1024:TYR:HA	1:E:1027:LEU:HG	1.94	0.50
1:E:2463:LEU:HD21	1:E:2517:PHE:HE1	1.77	0.50
1:E:2692:ASP:HB3	1:E:2695:LEU:HB3	1.94	0.50
1:G:965:TYR:O	1:G:967:PRO:HD3	2.11	0.50
1:G:1243:PRO:O	1:G:1458:HIS:ND1	2.31	0.50
1:G:2233:CYS:HB2	1:G:2270:SER:HB3	1.93	0.50
1:G:2559:LEU:O	1:G:2563:THR:HG23	2.12	0.50
1:G:4090:LYS:HD3	1:G:4112:LEU:HD13	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4725:LEU:HA	1:G:4737:ILE:HG21	1.93	0.50
1:G:4892:ARG:HH22	1:J:4918:ILE:HA	1.77	0.50
1:J:355:LEU:HB3	1:J:378:LEU:HB3	1.93	0.50
1:J:1862:ILE:HA	1:J:1865:MET:HG2	1.93	0.50
1:J:3051:ARG:HA	1:J:3131:TYR:CZ	2.46	0.50
1:B:470:SER:HA	1:B:473:ASN:ND2	2.27	0.49
1:B:682:LEU:HD23	1:B:738:LEU:HB3	1.94	0.49
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.12	0.49
1:B:3051:ARG:HA	1:B:3131:TYR:CZ	2.46	0.49
1:B:3536:ALA:HB2	1:B:3553:LEU:HD21	1.92	0.49
1:B:3729:MET:HE2	1:B:3800:LEU:HD11	1.94	0.49
1:E:657:THR:O	1:E:1007:TYR:N	2.34	0.49
1:E:3047:ALA:HB1	1:E:3095:PHE:CE1	2.47	0.49
1:E:3842:LEU:HA	1:E:3874:VAL:C	2.37	0.49
1:E:4080:TYR:CG	1:E:4096:ALA:HB2	2.46	0.49
1:E:4577:LEU:O	1:E:4580:TYR:HD1	1.95	0.49
1:G:73:LEU:O	1:G:106:ALA:N	2.45	0.49
1:G:247:TYR:HE2	1:G:359:TYR:HA	1.77	0.49
1:G:537:CYS:HB3	1:G:571:SER:OG	2.12	0.49
1:G:764:VAL:HG12	1:G:766:GLY:H	1.76	0.49
1:G:866:HIS:HD2	1:G:941:MET:HE3	1.76	0.49
1:G:2630:VAL:HG13	1:G:2682:ILE:HD11	1.93	0.49
1:G:3729:MET:HE2	1:G:3800:LEU:HD11	1.93	0.49
1:J:823:LEU:HD12	1:J:1617:THR:HB	1.94	0.49
1:J:1860:LYS:O	1:J:1864:LYS:HG2	2.12	0.49
1:J:2233:CYS:HB2	1:J:2270:SER:HB3	1.93	0.49
1:J:2692:ASP:HB3	1:J:2695:LEU:HB3	1.94	0.49
3:M:38:ARG:O	3:M:45:ARG:HA	2.11	0.49
1:B:451:TYR:CZ	1:B:474:ARG:HD2	2.47	0.49
1:B:1973:GLN:HE22	1:B:3641:LEU:H	1.59	0.49
1:B:2814:LYS:HA	1:B:2817:ILE:HG12	1.93	0.49
1:B:3047:ALA:HB1	1:B:3095:PHE:CE1	2.47	0.49
1:B:3974:THR:O	1:B:3978:GLN:HG2	2.12	0.49
1:B:4090:LYS:HD3	1:B:4112:LEU:HD13	1.93	0.49
1:B:4096:ALA:O	1:B:4099:SER:OG	2.23	0.49
1:E:526:LEU:HD11	1:E:540:PHE:CZ	2.47	0.49
1:E:1615:VAL:HG13	1:E:1630:CYS:HB2	1.93	0.49
1:E:1862:ILE:HA	1:E:1865:MET:HG2	1.93	0.49
1:E:2175:GLU:O	1:E:2179:ILE:HG12	2.11	0.49
1:E:3974:THR:O	1:E:3978:GLN:HG2	2.12	0.49
1:G:886:ARG:HB3	1:G:891:TRP:HB3	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:932:LEU:HD13	1:G:988:LEU:HD11	1.94	0.49
1:G:1862:ILE:HA	1:G:1865:MET:HG2	1.93	0.49
1:G:2823:ILE:HD12	1:G:2935:TYR:CD1	2.47	0.49
1:J:451:TYR:CZ	1:J:474:ARG:HD2	2.47	0.49
1:J:682:LEU:HD23	1:J:738:LEU:HB3	1.94	0.49
1:J:932:LEU:HD13	1:J:988:LEU:HD11	1.94	0.49
1:J:2823:ILE:HD12	1:J:2935:TYR:CD1	2.47	0.49
1:J:4063:ASP:HB2	1:J:4067:LYS:HE3	1.94	0.49
3:F:38:ARG:O	3:F:45:ARG:HA	2.11	0.49
3:F:111:ASN:HA	3:F:114:TYR:CD2	2.37	0.49
1:B:73:LEU:O	1:B:106:ALA:N	2.45	0.49
1:B:266:ARG:HG2	1:B:268:SER:H	1.74	0.49
1:B:1024:TYR:HA	1:B:1027:LEU:HG	1.94	0.49
1:E:470:SER:HA	1:E:473:ASN:ND2	2.27	0.49
1:E:1973:GLN:HE22	1:E:3641:LEU:H	1.59	0.49
1:E:2823:ILE:HD12	1:E:2935:TYR:CD1	2.47	0.49
1:E:4821:LYS:O	1:E:4825:THR:HG23	2.13	0.49
1:G:470:SER:HA	1:G:473:ASN:ND2	2.27	0.49
1:G:870:ILE:HD12	1:G:1051:TYR:CZ	2.46	0.49
1:G:3194:LEU:HA	1:G:3197:LEU:HG	1.93	0.49
1:J:537:CYS:HB3	1:J:571:SER:OG	2.12	0.49
1:J:2266:GLY:HA2	1:J:2271:THR:HG21	1.95	0.49
1:J:3317:GLY:O	1:J:3321:ARG:HG2	2.11	0.49
1:J:3923:LEU:HD22	1:J:3965:LEU:CD1	2.42	0.49
3:C:33:SER:OG	3:C:101:PRO:HA	2.12	0.49
3:C:38:ARG:O	3:C:45:ARG:HA	2.12	0.49
1:B:489:ASN:OD1	1:B:493:ARG:NH1	2.44	0.49
1:B:1477:GLY:HA2	1:B:1483:VAL:HA	1.94	0.49
1:B:4232:GLU:OE1	1:B:5019:TRP:NE1	2.45	0.49
1:B:4243:PHE:O	1:B:4247:ILE:HG13	2.11	0.49
1:B:4892:ARG:HH22	1:G:4918:ILE:HA	1.77	0.49
1:E:365:LYS:O	1:E:369:LEU:HG	2.12	0.49
1:E:2257:LEU:HD22	1:E:2272:PRO:HB3	1.93	0.49
1:E:3403:ARG:HG2	1:E:3458:PHE:CD1	2.47	0.49
1:G:906:CYS:O	1:G:908:VAL:HG23	2.11	0.49
1:G:2692:ASP:HB3	1:G:2695:LEU:HB3	1.94	0.49
1:J:886:ARG:HB3	1:J:891:TRP:HB3	1.94	0.49
1:J:2142:TYR:CZ	1:J:2197:LEU:HB2	2.48	0.49
1:J:2806:ARG:HG3	1:J:2810:LYS:HZ1	1.78	0.49
1:J:4725:LEU:HA	1:J:4737:ILE:HG21	1.93	0.49
2:A:18:LYS:HA	2:A:50:ILE:HG23	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:GLU:HA	1:B:147:TRP:HD1	1.77	0.49
1:B:251:ALA:C	1:B:255:HIS:HD1	2.19	0.49
1:B:2823:ILE:HD12	1:B:2935:TYR:CD1	2.47	0.49
1:B:3194:LEU:HA	1:B:3197:LEU:HG	1.93	0.49
1:B:4577:LEU:O	1:B:4580:TYR:HD1	1.95	0.49
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.93	0.49
1:E:22:LEU:HG	1:E:202:MET:HE1	1.94	0.49
1:E:247:TYR:HB2	1:E:374:LYS:HB2	1.95	0.49
1:E:489:ASN:OD1	1:E:493:ARG:NH1	2.44	0.49
1:E:3317:GLY:O	1:E:3321:ARG:HG2	2.11	0.49
1:E:4243:PHE:O	1:E:4247:ILE:HG13	2.11	0.49
1:G:937:CYS:SG	1:G:938:HIS:N	2.85	0.49
1:G:2206:THR:O	1:G:2210:VAL:HG23	2.12	0.49
1:G:2764:GLU:HG2	1:G:2857:PRO:HD3	1.94	0.49
1:G:3403:ARG:HG2	1:G:3458:PHE:CD1	2.47	0.49
1:G:3974:THR:O	1:G:3978:GLN:HG2	2.12	0.49
1:G:4229:GLU:OE1	1:G:4229:GLU:N	2.37	0.49
1:G:4779:LYS:HA	1:G:4782:VAL:HG22	1.94	0.49
1:J:1945:TYR:O	1:J:1949:GLN:HG2	2.11	0.49
1:J:2439:GLU:CD	1:J:2508:ARG:HH22	2.20	0.49
1:J:3047:ALA:HB1	1:J:3095:PHE:CE1	2.47	0.49
2:I:78:PRO:O	2:I:83:GLY:N	2.40	0.49
1:B:358:THR:HG21	1:B:382:GLY:HA2	1.95	0.49
1:B:537:CYS:HB3	1:B:571:SER:OG	2.12	0.49
1:B:866:HIS:HD2	1:B:941:MET:HE3	1.76	0.49
1:B:886:ARG:HB3	1:B:891:TRP:HB3	1.94	0.49
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.12	0.49
1:B:3403:ARG:HG2	1:B:3458:PHE:CD1	2.47	0.49
1:B:3457:ASN:O	1:B:3461:GLN:HG2	2.13	0.49
1:B:3842:LEU:HA	1:B:3874:VAL:C	2.38	0.49
1:E:195:PHE:CE2	1:J:2359:ARG:HA	2.47	0.49
1:E:1708:ARG:O	1:E:1712:TYR:HD1	1.96	0.49
1:E:3986:TRP:HB3	1:E:4047:MET:SD	2.51	0.49
1:G:1035:ASN:OD1	3:M:109:THR:OG1	2.26	0.49
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.94	0.49
1:G:2198:MET:HA	1:G:2203:MET:HE1	1.95	0.49
1:G:3400:VAL:HG23	1:G:3403:ARG:HE	1.76	0.49
1:G:3889:GLN:HB2	1:G:3967:GLU:HG2	1.93	0.49
1:G:4821:LYS:O	1:G:4825:THR:HG23	2.13	0.49
1:J:526:LEU:HD11	1:J:540:PHE:CZ	2.47	0.49
1:J:5012:LYS:O	1:J:5016:GLU:HG2	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2973:PHE:CD1	1:B:2995:ILE:HG12	2.48	0.49
1:E:886:ARG:HB3	1:E:891:TRP:HB3	1.94	0.49
1:E:4725:LEU:HA	1:E:4737:ILE:HG21	1.93	0.49
1:G:144:GLU:HA	1:G:147:TRP:HD1	1.77	0.49
1:G:636:ASN:ND2	2:H:35:LYS:HG2	2.28	0.49
1:G:2439:GLU:CD	1:G:2508:ARG:HH22	2.20	0.49
1:G:3676:ASP:HA	1:G:3679:LYS:HE2	1.95	0.49
1:J:866:HIS:HD2	1:J:941:MET:HE3	1.76	0.49
1:J:2431:ASP:O	1:J:2435:ARG:HG3	2.13	0.49
2:D:18:LYS:HA	2:D:50:ILE:HG23	1.95	0.49
1:B:22:LEU:HG	1:B:202:MET:HE1	1.94	0.49
1:B:657:THR:O	1:B:1007:TYR:N	2.34	0.49
1:B:1816:GLY:O	1:B:1820:ARG:HG2	2.13	0.49
1:B:2142:TYR:CZ	1:B:2197:LEU:HB2	2.48	0.49
1:B:2266:GLY:HA2	1:B:2271:THR:HG21	1.95	0.49
1:B:2359:ARG:HA	1:G:195:PHE:CE2	2.48	0.49
1:B:2582:MET:HA	1:B:2585:THR:HG22	1.95	0.49
1:B:4821:LYS:O	1:B:4825:THR:HG23	2.13	0.49
1:E:4063:ASP:HB2	1:E:4067:LYS:HE3	1.94	0.49
1:E:4860:ARG:HD2	1:E:4877:ASP:OD1	2.13	0.49
1:G:451:TYR:CZ	1:G:474:ARG:HD2	2.47	0.49
1:G:526:LEU:HD11	1:G:540:PHE:HZ	1.78	0.49
1:G:2142:TYR:CZ	1:G:2197:LEU:HB2	2.48	0.49
1:G:2359:ARG:HA	1:J:195:PHE:CE2	2.48	0.49
1:J:671:VAL:HB	1:J:740:PRO:HD3	1.95	0.49
1:J:764:VAL:HG12	1:J:766:GLY:H	1.76	0.49
1:J:1024:TYR:HA	1:J:1027:LEU:HG	1.94	0.49
1:J:3842:LEU:HA	1:J:3874:VAL:C	2.37	0.49
1:J:3889:GLN:HB2	1:J:3967:GLU:HG2	1.94	0.49
1:B:195:PHE:CE2	1:E:2359:ARG:HA	2.48	0.49
1:B:924:MET:HB2	3:C:107:TRP:CE3	2.47	0.49
1:B:993:HIS:CE1	1:B:1027:LEU:HD11	2.48	0.49
1:B:1862:ILE:HA	1:B:1865:MET:HG2	1.93	0.49
1:E:232:THR:HG21	1:E:252:VAL:HG11	1.95	0.49
1:E:993:HIS:CE1	1:E:1027:LEU:HD11	2.48	0.49
1:E:2559:LEU:O	1:E:2563:THR:HG23	2.12	0.49
1:E:2883:HIS:CE1	1:E:2911:LEU:HD21	2.47	0.49
1:G:823:LEU:HD12	1:G:1617:THR:HB	1.94	0.49
1:G:2814:LYS:HA	1:G:2817:ILE:HG12	1.93	0.49
1:G:2883:HIS:CE1	1:G:2911:LEU:HD21	2.47	0.49
1:G:3457:ASN:O	1:G:3461:GLN:HG2	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3919:THR:HG21	1:G:3968:TYR:HE2	1.78	0.49
1:J:470:SER:HA	1:J:473:ASN:ND2	2.27	0.49
1:J:526:LEU:HD11	1:J:540:PHE:HZ	1.77	0.49
1:J:952:LYS:HA	1:J:971:ASP:H	1.77	0.49
1:J:2364:PHE:HD1	1:J:2429:LEU:HD21	1.78	0.49
1:J:2973:PHE:CD1	1:J:2995:ILE:HG12	2.48	0.49
1:J:4184:MET:HB2	1:J:5023:PRO:HA	1.95	0.49
1:B:996:TRP:CZ2	3:C:113:GLU:HB3	2.48	0.49
1:B:1708:ARG:O	1:B:1712:TYR:HD1	1.95	0.49
1:B:2619:LEU:HG	1:B:2623:LEU:HG	1.95	0.49
1:B:2764:GLU:HG2	1:B:2857:PRO:HD3	1.94	0.49
1:B:2880:GLU:HA	1:B:2908:TYR:CG	2.48	0.49
1:E:866:HIS:HD2	1:E:941:MET:HE3	1.76	0.49
1:E:875:ALA:O	1:E:879:HIS:ND1	2.46	0.49
1:E:1816:GLY:O	1:E:1820:ARG:HG2	2.13	0.49
1:E:2431:ASP:O	1:E:2435:ARG:HG3	2.13	0.49
1:E:2619:LEU:HG	1:E:2623:LEU:HG	1.95	0.49
1:G:993:HIS:CE1	1:G:1027:LEU:HD11	2.48	0.49
1:G:1816:GLY:O	1:G:1820:ARG:HG2	2.13	0.49
1:G:2266:GLY:HA2	1:G:2271:THR:HG21	1.95	0.49
1:G:2973:PHE:CD1	1:G:2995:ILE:HG12	2.48	0.49
1:G:3047:ALA:HB1	1:G:3095:PHE:CE1	2.47	0.49
1:G:5012:LYS:O	1:G:5016:GLU:HG2	2.13	0.49
1:J:1973:GLN:HE22	1:J:3641:LEU:H	1.59	0.49
1:J:2153:MET:HE3	1:J:2157:GLU:HG3	1.95	0.49
1:B:232:THR:HG21	1:B:252:VAL:HG11	1.95	0.48
1:B:3641:LEU:HD12	1:B:3644:LEU:HD12	1.94	0.48
1:B:4541:TRP:O	1:B:4545:GLU:HG2	2.13	0.48
1:B:4865:LYS:HZ2	1:B:4901:ILE:HG22	1.78	0.48
1:E:2881:ASN:HA	1:E:2884:ASN:HD21	1.77	0.48
1:E:2973:PHE:CD1	1:E:2995:ILE:HG12	2.48	0.48
1:E:3249:LEU:O	1:E:3253:ILE:HG12	2.13	0.48
1:G:246:TYR:CD1	1:G:373:LYS:HG3	2.48	0.48
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.11	0.48
1:G:2880:GLU:HA	1:G:2908:TYR:CG	2.48	0.48
1:G:4104:THR:O	1:G:4108:ILE:HG12	2.13	0.48
1:G:4860:ARG:HD2	1:G:4877:ASP:OD1	2.13	0.48
1:J:1477:GLY:HA2	1:J:1483:VAL:HA	1.94	0.48
1:J:1816:GLY:O	1:J:1820:ARG:HG2	2.13	0.48
1:J:2439:GLU:HB2	1:J:2442:LEU:HG	1.95	0.48
1:J:2559:LEU:O	1:J:2563:THR:HG23	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3811:GLU:O	1:J:3814:GLN:HG3	2.13	0.48
1:B:488:LEU:HD11	1:B:540:PHE:CE1	2.48	0.48
1:B:665:GLU:HB3	1:B:792:LEU:HB2	1.95	0.48
1:B:2806:ARG:HG3	1:B:2810:LYS:HZ1	1.78	0.48
1:B:5012:LYS:O	1:B:5016:GLU:HG2	2.13	0.48
1:E:526:LEU:HD11	1:E:540:PHE:HZ	1.77	0.48
1:E:682:LEU:HD23	1:E:738:LEU:HB3	1.94	0.48
1:E:2439:GLU:CD	1:E:2508:ARG:HH22	2.20	0.48
1:G:358:THR:HG21	1:G:382:GLY:HA2	1.95	0.48
1:G:526:LEU:HD11	1:G:540:PHE:CZ	2.47	0.48
1:G:904:HIS:CD2	1:G:907:LEU:H	2.31	0.48
1:G:2582:MET:HA	1:G:2585:THR:HG22	1.95	0.48
1:G:2673:HIS:HD2	1:G:2716:ASP:HB2	1.78	0.48
1:G:2823:ILE:HB	1:G:2935:TYR:HD1	1.79	0.48
1:G:3842:LEU:HA	1:G:3874:VAL:C	2.37	0.48
1:J:665:GLU:HB3	1:J:792:LEU:HB2	1.95	0.48
1:J:875:ALA:O	1:J:879:HIS:ND1	2.46	0.48
1:J:1708:ARG:O	1:J:1712:TYR:HD1	1.96	0.48
1:J:2673:HIS:HD2	1:J:2716:ASP:HB2	1.78	0.48
1:J:2823:ILE:HB	1:J:2935:TYR:HD1	1.78	0.48
1:J:3641:LEU:HD12	1:J:3644:LEU:HD12	1.94	0.48
1:J:3974:THR:O	1:J:3978:GLN:HG2	2.12	0.48
1:J:4779:LYS:HA	1:J:4782:VAL:HG22	1.94	0.48
1:J:4821:LYS:O	1:J:4825:THR:HG23	2.13	0.48
2:A:7:ILE:HG22	2:A:71:ARG:O	2.14	0.48
3:M:105:ASN:OD1	3:M:107:TRP:HB3	2.13	0.48
1:B:1581:LEU:HA	1:B:1584:ARG:HE	1.77	0.48
1:B:2431:ASP:O	1:B:2435:ARG:HG3	2.13	0.48
1:B:2692:ASP:HB3	1:B:2695:LEU:HB3	1.94	0.48
1:B:2819:TRP:NE1	1:B:2881:ASN:OD1	2.36	0.48
1:E:223:PHE:CD1	1:E:230:CYS:HB3	2.49	0.48
1:E:1256:GLU:OE1	1:E:1275:ARG:NH2	2.47	0.48
1:E:1581:LEU:HA	1:E:1584:ARG:HE	1.77	0.48
1:E:2198:MET:HA	1:E:2203:MET:HE1	1.95	0.48
1:E:2582:MET:HA	1:E:2585:THR:HG22	1.95	0.48
1:E:2673:HIS:HD2	1:E:2716:ASP:HB2	1.78	0.48
1:E:3676:ASP:HA	1:E:3679:LYS:HE2	1.95	0.48
1:E:3923:LEU:HD22	1:E:3965:LEU:CD1	2.43	0.48
1:E:3946:GLN:OE1	1:E:3949:ARG:NH2	2.43	0.48
1:G:671:VAL:HB	1:G:740:PRO:HD3	1.95	0.48
1:G:875:ALA:O	1:G:879:HIS:ND1	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1100:MET:SD	1:G:1194:LEU:HG	2.54	0.48
1:G:3249:LEU:O	1:G:3253:ILE:HG12	2.13	0.48
1:G:3923:LEU:HD22	1:G:3965:LEU:CD1	2.42	0.48
1:J:2257:LEU:HD22	1:J:2272:PRO:HB3	1.94	0.48
1:J:2881:ASN:HA	1:J:2884:ASN:HD21	1.77	0.48
1:J:3093:ARG:O	1:J:3097:GLU:HG2	2.13	0.48
1:J:3144:PHE:CD2	1:J:3197:LEU:HB3	2.48	0.48
1:J:3416:VAL:HG23	1:J:3423:TRP:HZ3	1.79	0.48
3:M:66:ARG:HG2	3:M:84:SER:HB3	1.95	0.48
1:B:2153:MET:HE3	1:B:2157:GLU:HG3	1.95	0.48
1:B:2673:HIS:HD2	1:B:2716:ASP:HB2	1.78	0.48
1:B:3093:ARG:O	1:B:3097:GLU:HG2	2.14	0.48
1:E:2142:TYR:CZ	1:E:2197:LEU:HB2	2.48	0.48
1:E:3144:PHE:CD2	1:E:3197:LEU:HB3	2.49	0.48
1:G:2439:GLU:HB2	1:G:2442:LEU:HG	1.95	0.48
1:G:3539:ARG:HD3	1:G:3542:LEU:HD12	1.96	0.48
1:G:4031:LEU:HD13	1:G:4044:MET:HG3	1.95	0.48
1:G:4207:MET:HE1	1:G:4209:GLN:HB2	1.95	0.48
1:J:73:LEU:O	1:J:106:ALA:N	2.45	0.48
1:J:1858:ASP:O	1:J:1862:ILE:HG13	2.14	0.48
1:J:2198:MET:HA	1:J:2203:MET:HE1	1.95	0.48
1:J:3539:ARG:HD3	1:J:3542:LEU:HD12	1.96	0.48
2:D:7:ILE:HG22	2:D:71:ARG:O	2.14	0.48
2:I:7:ILE:HG22	2:I:71:ARG:O	2.14	0.48
1:B:223:PHE:CD1	1:B:230:CYS:HB3	2.48	0.48
1:B:2364:PHE:HD1	1:B:2429:LEU:HD21	1.78	0.48
1:B:3144:PHE:CD2	1:B:3197:LEU:HB3	2.48	0.48
1:B:3919:THR:HG21	1:B:3968:TYR:HE2	1.79	0.48
1:B:4860:ARG:HD2	1:B:4877:ASP:OD1	2.13	0.48
1:E:360:ALA:HA	1:E:377:ILE:HD13	1.94	0.48
1:E:2364:PHE:HD1	1:E:2429:LEU:HD21	1.78	0.48
1:E:2883:HIS:HE1	1:E:2904:LEU:O	1.97	0.48
1:E:3641:LEU:HD12	1:E:3644:LEU:HD12	1.94	0.48
1:E:4096:ALA:O	1:E:4099:SER:OG	2.23	0.48
1:E:4207:MET:HE1	1:E:4209:GLN:HB2	1.95	0.48
1:E:4232:GLU:OE1	1:E:5019:TRP:NE1	2.45	0.48
1:E:4541:TRP:O	1:E:4545:GLU:HG2	2.13	0.48
1:E:5012:LYS:O	1:E:5016:GLU:HG2	2.13	0.48
1:G:22:LEU:HG	1:G:202:MET:HE1	1.94	0.48
1:G:952:LYS:HA	1:G:971:ASP:H	1.77	0.48
1:G:1858:ASP:O	1:G:1862:ILE:HG13	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2128:TYR:CE2	1:G:3673:MET:HB3	2.49	0.48
1:G:2431:ASP:O	1:G:2435:ARG:HG3	2.13	0.48
1:G:2619:LEU:HG	1:G:2623:LEU:HG	1.95	0.48
1:J:22:LEU:HG	1:J:202:MET:HE1	1.94	0.48
1:J:3457:ASN:O	1:J:3461:GLN:HG2	2.13	0.48
1:J:4948:GLU:HA	1:J:4951:LYS:HZ3	1.78	0.48
3:C:52:THR:O	3:C:55:ASN:N	2.46	0.48
1:B:277:GLY:N	1:B:316:PHE:O	2.45	0.48
1:B:526:LEU:HD11	1:B:540:PHE:HZ	1.78	0.48
1:B:671:VAL:HB	1:B:740:PRO:HD3	1.95	0.48
1:B:1271:ARG:HH21	1:B:1560:ASN:ND2	2.11	0.48
1:B:2198:MET:HA	1:B:2203:MET:HE1	1.95	0.48
1:B:3416:VAL:HG23	1:B:3423:TRP:HZ3	1.79	0.48
1:B:4124:ASN:OD1	1:B:4125:PHE:N	2.47	0.48
1:B:4939:ALA:O	1:B:4943:LEU:HG	2.14	0.48
1:E:952:LYS:HA	1:E:971:ASP:H	1.78	0.48
1:E:1208:VAL:HG21	1:J:3575:LEU:HD21	1.95	0.48
1:E:1260:MET:SD	1:E:1260:MET:N	2.77	0.48
1:E:2880:GLU:HA	1:E:2908:TYR:CG	2.48	0.48
1:E:3416:VAL:HG23	1:E:3423:TRP:HZ3	1.79	0.48
1:G:384:MET:SD	1:G:384:MET:N	2.85	0.48
1:G:682:LEU:HD23	1:G:738:LEU:HB3	1.94	0.48
1:G:1708:ARG:O	1:G:1712:TYR:HD1	1.95	0.48
1:J:384:MET:SD	1:J:384:MET:N	2.85	0.48
1:J:525:LEU:O	1:J:529:LEU:HG	2.14	0.48
1:J:799:GLU:HG3	1:J:1623:ARG:HH22	1.79	0.48
1:J:993:HIS:CE1	1:J:1027:LEU:HD11	2.48	0.48
1:J:1269:CYS:HA	1:J:1564:PHE:O	2.14	0.48
1:J:2128:TYR:CE2	1:J:3673:MET:HB3	2.49	0.48
1:J:2880:GLU:HA	1:J:2908:TYR:CG	2.48	0.48
1:J:3540:TYR:CZ	1:J:3549:VAL:HG21	2.49	0.48
3:K:38:ARG:CZ	3:K:48:VAL:HG22	2.44	0.48
1:B:1926:LEU:O	1:B:1931:LEU:HD11	2.14	0.48
1:B:3639:THR:N	1:B:3640:PRO:HD2	2.29	0.48
1:E:488:LEU:HD11	1:E:540:PHE:CE1	2.48	0.48
1:E:913:LEU:HB3	1:E:917:GLU:CB	2.44	0.48
1:E:1858:ASP:O	1:E:1862:ILE:HG13	2.13	0.48
1:E:2909:ASP:C	1:E:2911:LEU:H	2.22	0.48
1:E:3078:ARG:O	1:E:3082:LYS:HG2	2.14	0.48
1:E:3919:THR:HG21	1:E:3968:TYR:HE2	1.78	0.48
1:E:4031:LEU:HD13	1:E:4044:MET:HG3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4184:MET:HB2	1:E:5023:PRO:HA	1.95	0.48
1:G:799:GLU:HG3	1:G:1623:ARG:HH22	1.79	0.48
1:G:3320:LEU:HD21	1:G:3361:THR:HG21	1.95	0.48
1:G:3416:VAL:HG23	1:G:3423:TRP:HZ3	1.79	0.48
1:G:4184:MET:HB2	1:G:5023:PRO:HA	1.95	0.48
1:G:4865:LYS:HZ2	1:G:4901:ILE:HG22	1.79	0.48
1:J:996:TRP:CZ2	3:K:113:GLU:HB3	2.49	0.48
1:J:1248:VAL:HG23	1:J:1597:VAL:O	2.14	0.48
1:J:1727:ARG:O	1:J:1731:LEU:HG	2.14	0.48
1:J:3639:THR:N	1:J:3640:PRO:HD2	2.29	0.48
1:J:4104:THR:O	1:J:4108:ILE:HG12	2.14	0.48
1:J:4914:VAL:O	1:J:4918:ILE:HG12	2.14	0.48
2:H:7:ILE:HG22	2:H:71:ARG:O	2.14	0.48
3:M:38:ARG:CZ	3:M:48:VAL:HG22	2.44	0.48
1:B:913:LEU:HB3	1:B:917:GLU:CB	2.44	0.48
1:B:1100:MET:SD	1:B:1194:LEU:HG	2.54	0.48
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.13	0.48
1:B:2823:ILE:HB	1:B:2935:TYR:HD1	1.79	0.48
1:B:4031:LEU:HD13	1:B:4044:MET:HG3	1.95	0.48
1:B:4948:GLU:HA	1:B:4951:LYS:HZ3	1.79	0.48
1:E:537:CYS:HB3	1:E:571:SER:OG	2.12	0.48
1:E:537:CYS:HB3	1:E:571:SER:HG	1.79	0.48
1:E:1727:ARG:O	1:E:1731:LEU:HG	2.14	0.48
1:E:2989:SER:HB2	1:E:2992:GLU:HB3	1.95	0.48
1:E:3320:LEU:HD21	1:E:3361:THR:HG21	1.95	0.48
1:E:3457:ASN:O	1:E:3461:GLN:HG2	2.13	0.48
1:G:1248:VAL:HG23	1:G:1597:VAL:O	2.14	0.48
1:G:3078:ARG:O	1:G:3082:LYS:HG2	2.14	0.48
1:G:3334:TRP:NE1	1:G:3337:ARG:HD2	2.29	0.48
1:J:488:LEU:HD11	1:J:540:PHE:CE1	2.48	0.48
1:J:2619:LEU:HG	1:J:2623:LEU:HG	1.95	0.48
1:J:4865:LYS:HZ2	1:J:4901:ILE:HG22	1.79	0.48
3:F:52:THR:O	3:F:55:ASN:N	2.46	0.48
1:B:470:SER:O	1:B:474:ARG:HG3	2.14	0.48
1:B:952:LYS:HA	1:B:971:ASP:H	1.77	0.48
1:B:2821:TRP:HB3	1:B:2937:VAL:HB	1.96	0.48
1:B:2989:SER:HB2	1:B:2992:GLU:HB3	1.95	0.48
1:B:3923:LEU:HD22	1:B:3965:LEU:CD1	2.42	0.48
1:E:372:LEU:H	1:E:372:LEU:HD22	1.79	0.48
1:E:2819:TRP:NE1	1:E:2881:ASN:OD1	2.36	0.48
1:E:2823:ILE:HB	1:E:2935:TYR:HD1	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.47	0.48
1:E:5013:MET:CE	1:E:5020:ASP:H	2.27	0.48
1:G:365:LYS:O	1:G:369:LEU:HG	2.13	0.48
1:G:1024:TYR:HA	1:G:1027:LEU:HG	1.94	0.48
1:G:2153:MET:HE3	1:G:2157:GLU:HG3	1.95	0.48
1:G:2364:PHE:HD1	1:G:2429:LEU:HD21	1.78	0.48
1:G:2821:TRP:HB3	1:G:2937:VAL:HB	1.96	0.48
1:G:2989:SER:HB2	1:G:2992:GLU:HB3	1.95	0.48
1:G:3639:THR:N	1:G:3640:PRO:HD2	2.29	0.48
1:G:3811:GLU:O	1:G:3814:GLN:HG3	2.13	0.48
1:G:3874:VAL:HG23	1:G:3875:MET:SD	2.54	0.48
1:G:4826:ILE:O	1:G:4830:VAL:HG23	2.14	0.48
1:J:1100:MET:SD	1:J:1194:LEU:HG	2.54	0.48
1:J:3676:ASP:HA	1:J:3679:LYS:HE2	1.95	0.48
1:J:4860:ARG:HD2	1:J:4877:ASP:OD1	2.13	0.48
3:F:33:SER:OG	3:F:101:PRO:HA	2.14	0.48
1:B:541:SER:HA	1:B:574:VAL:HG12	1.96	0.48
1:B:582:HIS:O	1:B:586:ILE:HG13	2.14	0.48
1:B:1521:ASP:HB2	1:B:1526:LEU:HD23	1.96	0.48
1:B:2128:TYR:CE2	1:B:3673:MET:HB3	2.49	0.48
1:B:2883:HIS:HE1	1:B:2904:LEU:O	1.97	0.48
1:B:3078:ARG:O	1:B:3082:LYS:HG2	2.14	0.48
1:B:3534:MET:O	1:B:3537:LYS:HG2	2.14	0.48
1:E:470:SER:O	1:E:474:ARG:HG3	2.14	0.48
1:E:1248:VAL:HG23	1:E:1597:VAL:O	2.14	0.48
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.94	0.48
1:E:3395:ARG:HG2	1:E:3450:ASN:OD1	2.14	0.48
1:G:488:LEU:HD11	1:G:540:PHE:CE1	2.48	0.48
1:G:1274:HIS:O	1:G:1559:GLN:NE2	2.47	0.48
1:G:1727:ARG:O	1:G:1731:LEU:HG	2.14	0.48
1:G:3099:ALA:O	1:G:3103:ILE:HG12	2.14	0.48
1:G:3144:PHE:CD2	1:G:3197:LEU:HB3	2.49	0.48
1:G:4677:LEU:HA	1:G:4680:LYS:HZ3	1.78	0.48
1:G:4948:GLU:HA	1:G:4951:LYS:HZ3	1.79	0.48
1:J:913:LEU:HB3	1:J:917:GLU:CB	2.44	0.48
1:J:2443:ILE:HD12	1:J:2454:ARG:NH1	2.29	0.48
1:J:2755:ILE:HG22	1:J:2810:LYS:HZ2	1.78	0.48
1:J:2989:SER:HB2	1:J:2992:GLU:HB3	1.95	0.48
1:J:3099:ALA:O	1:J:3103:ILE:HG12	2.14	0.48
1:J:3249:LEU:O	1:J:3253:ILE:HG12	2.13	0.48
1:J:4031:LEU:HD13	1:J:4044:MET:HG3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:18:LYS:HA	2:I:50:ILE:HG23	1.95	0.48
3:K:52:THR:O	3:K:55:ASN:N	2.47	0.48
3:K:66:ARG:HG2	3:K:84:SER:HB3	1.95	0.48
3:M:101:PRO:HD2	3:M:104:TYR:O	2.14	0.48
1:B:875:ALA:O	1:B:879:HIS:ND1	2.46	0.47
1:B:2443:ILE:HD12	1:B:2454:ARG:NH1	2.29	0.47
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.13	0.47
1:B:4584:ASP:HA	1:B:4627:MET:HA	1.96	0.47
1:E:525:LEU:O	1:E:529:LEU:HG	2.14	0.47
1:E:1100:MET:SD	1:E:1194:LEU:HG	2.54	0.47
1:E:1269:CYS:HA	1:E:1564:PHE:O	2.14	0.47
1:E:1274:HIS:O	1:E:1559:GLN:NE2	2.47	0.47
1:E:2266:GLY:HA2	1:E:2271:THR:HG21	1.95	0.47
1:E:3093:ARG:O	1:E:3097:GLU:HG2	2.14	0.47
1:E:3811:GLU:O	1:E:3814:GLN:HG3	2.13	0.47
1:E:4914:VAL:O	1:E:4918:ILE:HG12	2.14	0.47
1:E:4939:ALA:O	1:E:4943:LEU:HG	2.14	0.47
1:E:4948:GLU:HA	1:E:4951:LYS:HZ3	1.78	0.47
1:G:1271:ARG:HH21	1:G:1560:ASN:ND2	2.11	0.47
1:G:5013:MET:CE	1:G:5020:ASP:H	2.27	0.47
1:J:223:PHE:CD1	1:J:230:CYS:HB3	2.49	0.47
1:J:3153:GLY:O	1:J:3202:PRO:HG3	2.14	0.47
1:J:3395:ARG:HG2	1:J:3450:ASN:OD1	2.14	0.47
1:J:4207:MET:HE1	1:J:4209:GLN:HB2	1.95	0.47
1:J:4992:LEU:O	1:J:4996:ILE:HG13	2.14	0.47
1:J:5013:MET:CE	1:J:5020:ASP:H	2.27	0.47
2:H:18:LYS:HA	2:H:50:ILE:HG23	1.95	0.47
3:F:66:ARG:HG2	3:F:84:SER:HB3	1.95	0.47
1:B:799:GLU:HG3	1:B:1623:ARG:HH22	1.79	0.47
1:B:1042:ALA:O	1:B:1045:THR:OG1	2.20	0.47
1:B:1274:HIS:O	1:B:1559:GLN:NE2	2.47	0.47
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.14	0.47
1:B:2656:CYS:HA	1:B:2711:PRO:HD3	1.97	0.47
1:B:2792:ARG:H	1:B:2797:PHE:HD2	1.62	0.47
1:B:3676:ASP:HA	1:B:3679:LYS:HE2	1.95	0.47
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.14	0.47
1:E:671:VAL:HB	1:E:740:PRO:HD3	1.95	0.47
1:E:2656:CYS:HA	1:E:2711:PRO:HD3	1.97	0.47
1:E:3099:ALA:O	1:E:3103:ILE:HG12	2.14	0.47
1:E:3282:PRO:HG3	1:E:3345:ILE:HD13	1.97	0.47
1:E:3534:MET:O	1:E:3537:LYS:HG2	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:897:ARG:HH12	3:M:104:TYR:HD2	1.61	0.47
1:G:1256:GLU:OE1	1:G:1275:ARG:NH2	2.47	0.47
1:G:3395:ARG:HG2	1:G:3450:ASN:OD1	2.14	0.47
1:G:3575:LEU:HD21	1:J:1208:VAL:HG21	1.96	0.47
1:G:3889:GLN:NE2	1:G:3960:GLN:HE22	2.12	0.47
1:G:4584:ASP:HA	1:G:4627:MET:HA	1.96	0.47
1:J:277:GLY:N	1:J:316:PHE:O	2.45	0.47
1:J:1926:LEU:O	1:J:1931:LEU:HD11	2.14	0.47
1:J:2582:MET:HA	1:J:2585:THR:HG22	1.95	0.47
1:J:2909:ASP:C	1:J:2911:LEU:H	2.22	0.47
1:J:3261:ALA:HB1	1:J:3265:GLU:HG3	1.97	0.47
1:J:3320:LEU:HD21	1:J:3361:THR:HG21	1.95	0.47
1:J:3683:GLN:H	1:J:3683:GLN:CD	2.22	0.47
1:B:1208:VAL:HG21	1:E:3575:LEU:HD21	1.96	0.47
1:B:4104:THR:O	1:B:4108:ILE:HG12	2.13	0.47
1:B:5013:MET:CE	1:B:5020:ASP:H	2.27	0.47
1:E:996:TRP:CZ2	3:F:113:GLU:HB3	2.49	0.47
1:E:1271:ARG:HH21	1:E:1560:ASN:ND2	2.11	0.47
1:E:2593:ARG:HA	1:E:2600:ARG:NH2	2.29	0.47
1:E:3540:TYR:CZ	1:E:3549:VAL:HG21	2.49	0.47
1:G:223:PHE:CD1	1:G:230:CYS:HB3	2.48	0.47
1:G:470:SER:O	1:G:474:ARG:HG3	2.14	0.47
1:G:582:HIS:O	1:G:586:ILE:HG13	2.14	0.47
1:G:2980:VAL:HB	1:G:2986:VAL:HB	1.96	0.47
1:G:3093:ARG:O	1:G:3097:GLU:HG2	2.13	0.47
1:G:3153:GLY:O	1:G:3202:PRO:HG3	2.14	0.47
1:G:3534:MET:O	1:G:3537:LYS:HG2	2.14	0.47
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.47	0.47
1:J:582:HIS:O	1:J:586:ILE:HG13	2.14	0.47
1:J:3078:ARG:O	1:J:3082:LYS:HG2	2.14	0.47
1:J:3812:VAL:HG22	1:J:3816:MET:HE2	1.97	0.47
1:J:3919:THR:HG21	1:J:3968:TYR:HE2	1.79	0.47
3:C:38:ARG:CZ	3:C:48:VAL:HG22	2.44	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.15	0.47
1:B:3282:PRO:HG3	1:B:3345:ILE:HD13	1.96	0.47
1:B:3334:TRP:NE1	1:B:3337:ARG:HD2	2.29	0.47
1:B:3539:ARG:HD3	1:B:3542:LEU:HD12	1.96	0.47
1:B:4184:MET:HB2	1:B:5023:PRO:HA	1.95	0.47
1:E:3812:VAL:HG22	1:E:3816:MET:HE2	1.97	0.47
1:E:4826:ILE:O	1:E:4830:VAL:HG23	2.14	0.47
1:G:2439:GLU:O	1:G:2443:ILE:HG12	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3683:GLN:H	1:G:3683:GLN:CD	2.22	0.47
1:G:4541:TRP:O	1:G:4545:GLU:HG2	2.13	0.47
1:J:72:SER:HB2	1:J:99:ARG:HH11	1.79	0.47
1:J:3032:SER:O	1:J:3036:LYS:HG3	2.14	0.47
1:J:4541:TRP:O	1:J:4545:GLU:HG2	2.13	0.47
1:J:4826:ILE:O	1:J:4830:VAL:HG23	2.14	0.47
3:K:36:TRP:HB2	3:K:48:VAL:HB	1.96	0.47
1:B:3153:GLY:O	1:B:3202:PRO:HG3	2.14	0.47
1:B:3157:ILE:HG22	1:B:3157:ILE:O	2.15	0.47
1:B:3812:VAL:HG22	1:B:3816:MET:HE2	1.97	0.47
1:B:4207:MET:HE1	1:B:4209:GLN:HB2	1.95	0.47
1:B:4655:PHE:O	1:B:4659:ILE:HG12	2.15	0.47
1:B:4666:VAL:O	1:B:4670:ILE:HG12	2.15	0.47
1:E:173:SER:HB3	1:E:176:SER:HB2	1.96	0.47
1:E:2702:CYS:O	1:E:2706:ILE:HG13	2.15	0.47
1:E:2792:ARG:H	1:E:2797:PHE:HD2	1.63	0.47
1:E:3261:ALA:HB1	1:E:3265:GLU:HG3	1.97	0.47
1:E:4992:LEU:O	1:E:4996:ILE:HG13	2.14	0.47
1:G:63:ALA:HB3	1:G:402:ARG:NH2	2.30	0.47
1:G:3812:VAL:HG22	1:G:3816:MET:HE2	1.97	0.47
1:J:1721:GLU:O	1:J:1725:ARG:HG3	2.15	0.47
1:J:2702:CYS:O	1:J:2706:ILE:HG13	2.15	0.47
1:J:4124:ASN:OD1	1:J:4125:PHE:N	2.47	0.47
1:J:4543:GLU:O	1:J:4547:GLN:HG2	2.14	0.47
3:F:38:ARG:CZ	3:F:48:VAL:HG22	2.43	0.47
1:B:72:SER:HB2	1:B:99:ARG:HH11	1.80	0.47
1:B:173:SER:HB3	1:B:176:SER:HB2	1.96	0.47
1:B:3320:LEU:HD21	1:B:3361:THR:HG21	1.95	0.47
1:B:3575:LEU:HD21	1:G:1208:VAL:HG21	1.96	0.47
1:B:3811:GLU:O	1:B:3814:GLN:HG3	2.13	0.47
1:E:1721:GLU:O	1:E:1725:ARG:HG3	2.15	0.47
1:E:2443:ILE:HD12	1:E:2454:ARG:NH1	2.29	0.47
1:E:3157:ILE:O	1:E:3157:ILE:HG22	2.15	0.47
1:E:3874:VAL:HG23	1:E:3875:MET:SD	2.54	0.47
1:E:4104:THR:O	1:E:4108:ILE:HG12	2.14	0.47
1:G:665:GLU:HB3	1:G:792:LEU:HB2	1.95	0.47
1:G:2443:ILE:HD12	1:G:2454:ARG:NH1	2.29	0.47
1:G:2792:ARG:H	1:G:2797:PHE:HD2	1.62	0.47
1:G:2909:ASP:C	1:G:2911:LEU:H	2.22	0.47
1:G:2958:GLY:O	1:G:2962:GLN:HG2	2.15	0.47
1:G:4939:ALA:O	1:G:4943:LEU:HG	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:232:THR:HG21	1:J:252:VAL:HG11	1.95	0.47
1:J:470:SER:O	1:J:474:ARG:HG3	2.14	0.47
1:J:1271:ARG:HH21	1:J:1560:ASN:ND2	2.11	0.47
1:J:2674:LEU:HD21	1:J:2910:THR:HB	1.96	0.47
1:J:2792:ARG:H	1:J:2797:PHE:HD2	1.62	0.47
1:J:2883:HIS:HE1	1:J:2904:LEU:O	1.97	0.47
1:J:3282:PRO:HG3	1:J:3345:ILE:HD13	1.96	0.47
1:J:3874:VAL:HG23	1:J:3875:MET:SD	2.54	0.47
1:J:3889:GLN:NE2	1:J:3960:GLN:HE22	2.12	0.47
1:J:4232:GLU:OE1	1:J:5019:TRP:NE1	2.45	0.47
1:B:63:ALA:HB3	1:B:402:ARG:NH2	2.30	0.47
1:B:525:LEU:O	1:B:529:LEU:HG	2.14	0.47
1:B:920:TYR:CG	3:C:101:PRO:HG3	2.50	0.47
1:B:1248:VAL:HG23	1:B:1597:VAL:O	2.14	0.47
1:B:2131:LEU:HD11	1:B:3662:ILE:HG12	1.97	0.47
1:B:2881:ASN:HA	1:B:2884:ASN:HD21	1.78	0.47
1:B:2958:GLY:O	1:B:2962:GLN:HG2	2.15	0.47
1:B:2980:VAL:HB	1:B:2986:VAL:HB	1.96	0.47
1:B:3261:ALA:HB1	1:B:3265:GLU:HG3	1.97	0.47
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.49	0.47
1:B:3683:GLN:H	1:B:3683:GLN:CD	2.22	0.47
1:B:4673:ARG:NH1	1:B:4698:LYS:HE2	2.30	0.47
1:B:4879:MET:HG2	1:B:4880:MET:HE3	1.97	0.47
1:B:4914:VAL:O	1:B:4918:ILE:HG12	2.14	0.47
1:B:4918:ILE:HA	1:E:4892:ARG:HH22	1.79	0.47
1:E:1521:ASP:HB2	1:E:1526:LEU:HD23	1.96	0.47
1:E:2128:TYR:CE2	1:E:3673:MET:HB3	2.49	0.47
1:E:2190:VAL:HA	1:E:2193:GLN:HB3	1.97	0.47
1:E:2674:LEU:HD21	1:E:2910:THR:HB	1.97	0.47
1:E:2821:TRP:HB3	1:E:2937:VAL:HB	1.96	0.47
1:E:3639:THR:N	1:E:3640:PRO:HD2	2.29	0.47
1:G:232:THR:HG21	1:G:252:VAL:HG11	1.95	0.47
1:G:1521:ASP:HB2	1:G:1526:LEU:HD23	1.96	0.47
1:G:1926:LEU:O	1:G:1931:LEU:HD11	2.14	0.47
1:G:2593:ARG:HA	1:G:2600:ARG:NH2	2.29	0.47
1:G:2656:CYS:HA	1:G:2711:PRO:HD3	1.97	0.47
1:G:2881:ASN:HA	1:G:2884:ASN:HD21	1.78	0.47
1:G:3433:GLU:HA	1:G:3436:ARG:HD2	1.97	0.47
1:G:3540:TYR:CZ	1:G:3549:VAL:HG21	2.49	0.47
1:G:4543:GLU:O	1:G:4547:GLN:HG2	2.14	0.47
1:G:4914:VAL:O	1:G:4918:ILE:HG12	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:669:ASP:O	1:J:740:PRO:HB3	2.15	0.47
1:J:1274:HIS:O	1:J:1559:GLN:NE2	2.47	0.47
1:J:1521:ASP:HB2	1:J:1526:LEU:HD23	1.96	0.47
1:J:2131:LEU:HD11	1:J:3662:ILE:HG12	1.97	0.47
1:J:2821:TRP:HB3	1:J:2937:VAL:HB	1.96	0.47
1:J:3157:ILE:HG22	1:J:3157:ILE:O	2.15	0.47
3:K:33:SER:OG	3:K:101:PRO:HA	2.14	0.47
3:M:36:TRP:HB2	3:M:48:VAL:HB	1.96	0.47
1:B:932:LEU:HA	1:B:988:LEU:HD21	1.97	0.47
1:B:2211:MET:HE2	1:B:2272:PRO:HG3	1.97	0.47
1:B:2674:LEU:HD21	1:B:2910:THR:HB	1.96	0.47
1:B:3032:SER:O	1:B:3036:LYS:HG3	2.14	0.47
1:B:3384:LYS:NZ	1:B:3386:GLU:OE1	2.48	0.47
1:E:63:ALA:HB3	1:E:402:ARG:NH2	2.30	0.47
1:E:582:HIS:O	1:E:586:ILE:HG13	2.14	0.47
1:E:1573:MET:SD	1:E:1574:PRO:HD2	2.55	0.47
1:E:1926:LEU:O	1:E:1931:LEU:HD11	2.14	0.47
1:E:2439:GLU:HB2	1:E:2442:LEU:HG	1.95	0.47
1:E:4673:ARG:NH1	1:E:4698:LYS:HE2	2.30	0.47
1:G:173:SER:HB3	1:G:176:SER:HB2	1.96	0.47
1:G:1075:PHE:HB2	1:G:1192:CYS:SG	2.55	0.47
1:G:1269:CYS:HA	1:G:1564:PHE:O	2.14	0.47
1:G:2013:LYS:NZ	1:G:3664:THR:OG1	2.38	0.47
1:G:2883:HIS:HE1	1:G:2904:LEU:O	1.97	0.47
1:G:3670:GLU:O	1:G:3674:ILE:HG12	2.15	0.47
1:G:4983:HIS:HA	1:G:4988:TYR:HE2	1.80	0.47
1:J:2190:VAL:HA	1:J:2193:GLN:HB3	1.97	0.47
1:J:3334:TRP:NE1	1:J:3337:ARG:HD2	2.29	0.47
1:J:4152:GLU:OE1	1:J:4192:ARG:NH1	2.48	0.47
1:J:4983:HIS:HA	1:J:4988:TYR:HE2	1.80	0.47
1:B:669:ASP:O	1:B:740:PRO:HB3	2.15	0.47
1:B:2439:GLU:HB2	1:B:2442:LEU:HG	1.95	0.47
1:B:2575:ARG:NH1	1:B:2575:ARG:HA	2.30	0.47
1:B:3099:ALA:O	1:B:3103:ILE:HG12	2.14	0.47
1:B:3103:ILE:O	1:B:3107:VAL:HG13	2.15	0.47
1:B:3204:ALA:HB1	1:B:3207:GLU:HB2	1.97	0.47
1:B:3943:ILE:HG12	1:B:4009:GLN:HE22	1.80	0.47
1:B:4543:GLU:O	1:B:4547:GLN:HG2	2.14	0.47
1:E:2575:ARG:NH1	1:E:2575:ARG:HA	2.30	0.47
1:E:3192:GLU:O	1:E:3196:ARG:HG2	2.15	0.47
1:E:3539:ARG:HD3	1:E:3542:LEU:HD12	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4865:LYS:HZ2	1:E:4901:ILE:HG22	1.78	0.47
1:G:208:CYS:HG	1:G:273:HIS:CE1	2.29	0.47
1:G:1024:TYR:OH	1:G:1036:ARG:HG3	2.15	0.47
1:G:1871:PHE:HZ	1:G:2094:LEU:HD13	1.80	0.47
1:G:2702:CYS:O	1:G:2706:ILE:HG13	2.15	0.47
1:G:3282:PRO:HG3	1:G:3345:ILE:HD13	1.97	0.47
1:G:4152:GLU:OE1	1:G:4192:ARG:NH1	2.48	0.47
1:G:4666:VAL:O	1:G:4670:ILE:HG12	2.15	0.47
1:J:790:ARG:HD2	1:J:1624:LEU:HB3	1.97	0.47
1:J:2656:CYS:HA	1:J:2711:PRO:HD3	1.97	0.47
1:J:3103:ILE:O	1:J:3107:VAL:HG13	2.15	0.47
1:J:3270:ILE:HG23	1:J:3274:LEU:HD12	1.97	0.47
1:J:4939:ALA:O	1:J:4943:LEU:HG	2.14	0.47
3:C:66:ARG:HG2	3:C:84:SER:HB3	1.95	0.47
1:B:4021:LYS:O	1:B:4025:VAL:HG23	2.15	0.47
1:B:4983:HIS:HA	1:B:4988:TYR:HE2	1.80	0.47
1:E:932:LEU:HA	1:E:988:LEU:HD21	1.97	0.47
1:E:2439:GLU:O	1:E:2443:ILE:HG12	2.15	0.47
1:E:4152:GLU:OE1	1:E:4192:ARG:NH1	2.48	0.47
1:E:4675:LYS:O	1:E:4679:ARG:HG2	2.15	0.47
1:E:4983:HIS:HA	1:E:4988:TYR:HE2	1.80	0.47
1:G:3103:ILE:O	1:G:3107:VAL:HG13	2.15	0.47
1:G:3261:ALA:HB1	1:G:3265:GLU:HG3	1.97	0.47
1:G:3941:ASP:OD1	1:G:3942:VAL:N	2.48	0.47
1:J:173:SER:HB3	1:J:176:SER:HB2	1.95	0.47
1:J:597:HIS:HB2	1:J:1665:HIS:CG	2.50	0.47
1:J:1573:MET:SD	1:J:1574:PRO:HD2	2.55	0.47
1:J:2439:GLU:O	1:J:2443:ILE:HG12	2.15	0.47
1:J:2980:VAL:HB	1:J:2986:VAL:HB	1.96	0.47
1:J:3192:GLU:O	1:J:3196:ARG:HG2	2.15	0.47
1:J:3339:ALA:O	1:J:3343:GLN:HG2	2.15	0.47
1:J:3534:MET:O	1:J:3537:LYS:HG2	2.14	0.47
1:J:4096:ALA:O	1:J:4100:GLN:HG2	2.15	0.47
3:F:111:ASN:O	3:F:114:TYR:HB2	2.15	0.47
1:B:2909:ASP:C	1:B:2911:LEU:H	2.22	0.46
1:B:3198:ALA:HA	1:B:3201:MET:HG3	1.97	0.46
1:B:3406:TYR:OH	1:B:3455:GLU:OE2	2.28	0.46
1:E:1075:PHE:HB2	1:E:1192:CYS:SG	2.55	0.46
1:E:1871:PHE:HZ	1:E:2094:LEU:HD13	1.80	0.46
1:E:2131:LEU:HD11	1:E:3662:ILE:HG12	1.97	0.46
1:E:3103:ILE:O	1:E:3107:VAL:HG13	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3270:ILE:HG23	1:E:3274:LEU:HD12	1.97	0.46
1:E:3334:TRP:NE1	1:E:3337:ARG:HD2	2.29	0.46
1:E:3384:LYS:NZ	1:E:3386:GLU:OE1	2.48	0.46
1:E:3670:GLU:O	1:E:3674:ILE:HG12	2.15	0.46
1:E:4655:PHE:O	1:E:4659:ILE:HG12	2.15	0.46
1:E:4879:MET:HG2	1:E:4880:MET:HE3	1.97	0.46
1:G:525:LEU:O	1:G:529:LEU:HG	2.14	0.46
1:G:597:HIS:HB2	1:G:1665:HIS:CG	2.50	0.46
1:G:1573:MET:SD	1:G:1574:PRO:HD2	2.55	0.46
1:G:2131:LEU:HD11	1:G:3662:ILE:HG12	1.97	0.46
1:G:2293:GLN:HA	1:G:2296:GLU:HG3	1.98	0.46
1:G:3204:ALA:HB1	1:G:3207:GLU:HB2	1.97	0.46
1:G:3943:ILE:HG12	1:G:4009:GLN:HE22	1.80	0.46
1:G:4021:LYS:O	1:G:4025:VAL:HG23	2.15	0.46
1:G:4992:LEU:O	1:G:4996:ILE:HG13	2.14	0.46
1:J:829:TYR:HB2	1:J:1075:PHE:CE1	2.50	0.46
1:J:1256:GLU:OE1	1:J:1275:ARG:NH2	2.46	0.46
1:J:3433:GLU:HA	1:J:3436:ARG:HD2	1.97	0.46
1:J:4021:LYS:O	1:J:4025:VAL:HG23	2.15	0.46
1:J:4675:LYS:O	1:J:4679:ARG:HG2	2.15	0.46
1:B:1093:GLU:HB2	1:B:1148:VAL:HG12	1.98	0.46
1:B:1721:GLU:O	1:B:1725:ARG:HG3	2.15	0.46
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.51	0.46
1:B:2494:PHE:HE1	1:B:2498:HIS:HB2	1.79	0.46
1:B:4152:GLU:OE1	1:B:4192:ARG:NH1	2.48	0.46
1:E:790:ARG:HD2	1:E:1624:LEU:HB3	1.97	0.46
1:E:1024:TYR:OH	1:E:1036:ARG:HG3	2.15	0.46
1:E:2739:PRO:HG3	1:E:2888:ARG:HG2	1.97	0.46
1:E:3032:SER:O	1:E:3036:LYS:HG3	2.14	0.46
1:E:3198:ALA:HA	1:E:3201:MET:HG3	1.97	0.46
1:E:3940:LYS:O	1:E:4002:LYS:NZ	2.48	0.46
1:E:3941:ASP:OD1	1:E:3942:VAL:N	2.48	0.46
1:E:4543:GLU:O	1:E:4547:GLN:HG2	2.14	0.46
1:E:4664:LEU:HD12	1:E:4665:LYS:HB2	1.98	0.46
1:G:669:ASP:O	1:G:740:PRO:HB3	2.15	0.46
1:G:2012:PHE:CZ	1:G:2031:LEU:HD23	2.51	0.46
1:G:2190:VAL:HA	1:G:2193:GLN:HB3	1.97	0.46
1:J:63:ALA:HB3	1:J:402:ARG:NH2	2.30	0.46
1:J:1704:PRO:O	1:J:1708:ARG:HG2	2.16	0.46
1:J:2494:PHE:HE1	1:J:2498:HIS:HB2	1.79	0.46
1:J:2593:ARG:HA	1:J:2600:ARG:NH2	2.29	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2958:GLY:O	1:J:2962:GLN:HG2	2.15	0.46
1:J:4584:ASP:HA	1:J:4627:MET:HA	1.96	0.46
2:D:15:PHE:CE1	2:D:67:SER:HB3	2.50	0.46
3:C:111:ASN:O	3:C:114:TYR:HB2	2.15	0.46
1:B:2117:VAL:HA	1:B:2120:MET:HG2	1.98	0.46
1:B:3270:ILE:HG23	1:B:3274:LEU:HD12	1.97	0.46
1:B:3433:GLU:HA	1:B:3436:ARG:HD2	1.96	0.46
1:B:3670:GLU:O	1:B:3674:ILE:HG12	2.15	0.46
1:B:3874:VAL:HG23	1:B:3875:MET:SD	2.54	0.46
1:B:3893:GLU:HA	1:B:3967:GLU:OE2	2.15	0.46
1:E:799:GLU:HG3	1:E:1623:ARG:HH22	1.79	0.46
1:E:2153:MET:HE3	1:E:2157:GLU:HG3	1.95	0.46
1:E:3153:GLY:O	1:E:3202:PRO:HG3	2.14	0.46
1:E:3433:GLU:HA	1:E:3436:ARG:HD2	1.97	0.46
1:E:4229:GLU:OE1	1:E:4229:GLU:N	2.37	0.46
1:E:4666:VAL:O	1:E:4670:ILE:HG12	2.15	0.46
1:G:954:LYS:HA	1:G:954:LYS:HD2	1.77	0.46
1:G:2588:ARG:NH1	1:G:2901:THR:HB	2.31	0.46
1:J:541:SER:HA	1:J:574:VAL:HG12	1.96	0.46
1:J:1871:PHE:HZ	1:J:2094:LEU:HD13	1.80	0.46
1:J:2117:VAL:HA	1:J:2120:MET:HG2	1.98	0.46
1:J:3176:GLY:HA2	1:J:3187:ARG:HH22	1.81	0.46
2:A:15:PHE:CE1	2:A:67:SER:HB3	2.50	0.46
2:I:15:PHE:CE1	2:I:67:SER:HB3	2.50	0.46
2:I:30:LEU:HB2	2:I:34:LYS:HB2	1.98	0.46
3:C:36:TRP:HB2	3:C:48:VAL:HB	1.96	0.46
1:B:597:HIS:HB2	1:B:1665:HIS:CG	2.50	0.46
1:B:2588:ARG:NH1	1:B:2901:THR:HB	2.31	0.46
1:B:2593:ARG:HA	1:B:2600:ARG:NH2	2.29	0.46
1:B:4664:LEU:HD12	1:B:4665:LYS:HB2	1.98	0.46
1:E:2013:LYS:NZ	1:E:3664:THR:OG1	2.38	0.46
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.15	0.46
1:E:3176:GLY:HA2	1:E:3187:ARG:HH22	1.80	0.46
1:E:3683:GLN:H	1:E:3683:GLN:CD	2.22	0.46
1:E:4584:ASP:HA	1:E:4627:MET:HA	1.96	0.46
1:G:1721:GLU:O	1:G:1725:ARG:HG3	2.15	0.46
1:G:4096:ALA:O	1:G:4099:SER:OG	2.23	0.46
1:G:4655:PHE:O	1:G:4659:ILE:HG12	2.15	0.46
1:G:4772:ASP:OD1	1:G:4772:ASP:N	2.49	0.46
1:J:2725:LYS:NZ	1:J:2736:ASP:OD2	2.41	0.46
1:B:1024:TYR:OH	1:B:1036:ARG:HG3	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1075:PHE:HB2	1:B:1192:CYS:SG	2.55	0.46
1:B:1269:CYS:HA	1:B:1564:PHE:O	2.14	0.46
1:B:1712:TYR:O	1:B:1716:ILE:HG13	2.16	0.46
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.15	0.46
1:B:2926:LEU:O	1:B:2930:LEU:HG	2.15	0.46
1:B:3889:GLN:NE2	1:B:3960:GLN:HE22	2.12	0.46
1:E:792:LEU:HD22	1:E:799:GLU:H	1.81	0.46
1:E:1704:PRO:O	1:E:1708:ARG:HG2	2.16	0.46
1:E:1813:ARG:NH2	1:E:1814:MET:HE2	2.24	0.46
1:E:3164:SER:O	1:E:3168:THR:HG23	2.16	0.46
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.15	0.46
1:G:72:SER:HB2	1:G:99:ARG:HH11	1.79	0.46
1:G:541:SER:HA	1:G:574:VAL:HG12	1.96	0.46
1:G:1704:PRO:O	1:G:1708:ARG:HG2	2.16	0.46
1:G:1784:ALA:HA	2:H:55:VAL:HA	1.96	0.46
1:G:2494:PHE:HE1	1:G:2498:HIS:HB2	1.79	0.46
1:G:3032:SER:O	1:G:3036:LYS:HG3	2.14	0.46
1:G:3266:MET:O	1:G:3266:MET:HG2	2.16	0.46
1:G:3967:GLU:CA	1:G:3970:GLN:HG2	2.39	0.46
1:J:245:VAL:HG23	1:J:376:ALA:CB	2.46	0.46
1:J:3164:SER:O	1:J:3168:THR:HG23	2.16	0.46
1:J:3198:ALA:HA	1:J:3201:MET:HG3	1.97	0.46
1:J:3776:ALA:HB1	1:J:3816:MET:HG3	1.98	0.46
1:J:4673:ARG:NH1	1:J:4698:LYS:HE2	2.30	0.46
3:K:66:ARG:HE	3:K:83:ASN:HB2	1.80	0.46
1:B:800:PHE:HD2	1:B:804:PRO:HG3	1.81	0.46
1:B:2190:VAL:HA	1:B:2193:GLN:HB3	1.97	0.46
1:B:2624:ARG:HG3	1:B:2625:ARG:HH21	1.81	0.46
1:B:2739:PRO:HG3	1:B:2888:ARG:HG2	1.97	0.46
1:B:3176:GLY:HA2	1:B:3187:ARG:HH22	1.80	0.46
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.15	0.46
1:B:3395:ARG:HG2	1:B:3450:ASN:OD1	2.14	0.46
1:B:4992:LEU:O	1:B:4996:ILE:HG13	2.15	0.46
1:E:214:VAL:HG22	1:E:341:TYR:HD1	1.81	0.46
1:E:665:GLU:HB3	1:E:792:LEU:HB2	1.95	0.46
1:E:800:PHE:HD2	1:E:804:PRO:HG3	1.81	0.46
1:E:1712:TYR:O	1:E:1716:ILE:HG13	2.16	0.46
1:E:2494:PHE:HE1	1:E:2498:HIS:HB2	1.79	0.46
1:E:3889:GLN:NE2	1:E:3960:GLN:HE22	2.12	0.46
1:E:3893:GLU:HA	1:E:3967:GLU:OE2	2.15	0.46
1:G:459:LEU:HB3	1:G:463:GLU:HG3	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2211:MET:HE2	1:G:2272:PRO:HG3	1.97	0.46
1:G:2575:ARG:NH1	1:G:2575:ARG:HA	2.30	0.46
1:G:4677:LEU:HA	1:G:4680:LYS:NZ	2.31	0.46
1:J:932:LEU:HA	1:J:988:LEU:HD21	1.97	0.46
1:J:2211:MET:HE2	1:J:2272:PRO:HG3	1.97	0.46
2:A:30:LEU:HB2	2:A:34:LYS:HB2	1.98	0.46
2:D:30:LEU:HB2	2:D:34:LYS:HB2	1.98	0.46
1:B:214:VAL:HG22	1:B:341:TYR:HD1	1.81	0.46
1:B:459:LEU:HB3	1:B:463:GLU:HG3	1.98	0.46
1:B:710:ASP:OD1	1:B:711:LEU:N	2.49	0.46
1:B:4675:LYS:O	1:B:4679:ARG:HG2	2.15	0.46
1:E:829:TYR:HB2	1:E:1075:PHE:CE1	2.50	0.46
1:E:1100:MET:HE1	1:E:1195:GLY:H	1.81	0.46
1:E:2806:ARG:HH11	1:E:2810:LYS:HG3	1.81	0.46
1:E:2957:PHE:HE2	1:E:3034:LYS:HG3	1.81	0.46
1:E:3266:MET:HG2	1:E:3266:MET:O	2.16	0.46
1:E:3339:ALA:O	1:E:3343:GLN:HG2	2.15	0.46
1:E:3981:ALA:O	1:E:3986:TRP:NE1	2.49	0.46
1:G:710:ASP:OD1	1:G:711:LEU:N	2.49	0.46
1:G:829:TYR:HB2	1:G:1075:PHE:CE1	2.50	0.46
1:G:2376:LEU:O	1:G:2380:ILE:HG12	2.15	0.46
1:G:2806:ARG:HH11	1:G:2810:LYS:HG3	1.81	0.46
1:G:3176:GLY:HA2	1:G:3187:ARG:HH22	1.81	0.46
1:G:4048:LEU:HD11	1:G:4150:LEU:HD13	1.98	0.46
1:J:214:VAL:HG22	1:J:341:TYR:HD1	1.81	0.46
1:J:710:ASP:OD1	1:J:711:LEU:N	2.49	0.46
1:J:1066:GLN:HA	1:J:1069:TRP:HE3	1.81	0.46
1:J:1100:MET:HE1	1:J:1195:GLY:H	1.81	0.46
1:J:3940:LYS:O	1:J:4002:LYS:NZ	2.48	0.46
1:J:4652:LEU:O	1:J:4656:LEU:HG	2.16	0.46
2:H:30:LEU:HB2	2:H:34:LYS:HB2	1.98	0.46
1:B:399:GLN:HG2	1:B:403:MET:HE1	1.98	0.46
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.55	0.46
1:B:3164:SER:O	1:B:3168:THR:HG23	2.16	0.46
1:B:3845:ASN:O	1:B:3848:GLU:HG2	2.16	0.46
1:B:3941:ASP:OD1	1:B:3942:VAL:N	2.48	0.46
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.15	0.46
1:B:4652:LEU:O	1:B:4656:LEU:HG	2.16	0.46
1:E:669:ASP:O	1:E:740:PRO:HB3	2.15	0.46
1:E:2376:LEU:O	1:E:2380:ILE:HG12	2.15	0.46
1:E:2624:ARG:HG3	1:E:2625:ARG:HH21	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2980:VAL:HB	1:E:2986:VAL:HB	1.96	0.46
1:E:3225:ARG:O	1:E:3229:ILE:HG23	2.16	0.46
1:E:4856:PHE:HA	1:E:4876:CYS:SG	2.56	0.46
1:G:2747:ILE:H	1:G:2814:LYS:HZ2	1.62	0.46
1:G:4096:ALA:O	1:G:4100:GLN:HG2	2.15	0.46
1:G:4879:MET:HG2	1:G:4880:MET:HE3	1.97	0.46
1:J:248:GLU:HB3	1:J:373:LYS:CA	2.45	0.46
1:J:1075:PHE:HB2	1:J:1192:CYS:SG	2.55	0.46
1:J:2957:PHE:HE2	1:J:3034:LYS:HG3	1.81	0.46
1:J:3384:LYS:NZ	1:J:3386:GLU:OE1	2.48	0.46
1:J:3943:ILE:HG12	1:J:4009:GLN:HE22	1.80	0.46
1:J:4048:LEU:HD11	1:J:4150:LEU:HD13	1.98	0.46
1:J:4655:PHE:O	1:J:4659:ILE:HG12	2.15	0.46
1:J:4664:LEU:HD12	1:J:4665:LYS:HB2	1.98	0.46
3:F:36:TRP:HB2	3:F:48:VAL:HB	1.96	0.46
1:B:1100:MET:HE1	1:B:1195:GLY:H	1.81	0.46
1:B:1871:PHE:HZ	1:B:2094:LEU:HD13	1.80	0.46
1:B:2293:GLN:HA	1:B:2296:GLU:HG3	1.98	0.46
1:B:3266:MET:HG2	1:B:3266:MET:O	2.16	0.46
1:E:1093:GLU:HB2	1:E:1148:VAL:HG12	1.98	0.46
1:E:2958:GLY:O	1:E:2962:GLN:HG2	2.15	0.46
1:G:214:VAL:HG22	1:G:341:TYR:HD1	1.81	0.46
1:G:914:PRO:HG2	1:G:917:GLU:HG2	1.98	0.46
1:G:1100:MET:HE1	1:G:1195:GLY:H	1.81	0.46
1:G:1712:TYR:O	1:G:1716:ILE:HG13	2.16	0.46
1:G:2674:LEU:HD21	1:G:2910:THR:HB	1.97	0.46
1:G:2827:ARG:NE	1:G:2935:TYR:OH	2.28	0.46
1:G:3270:ILE:HG23	1:G:3274:LEU:HD12	1.97	0.46
1:J:792:LEU:HD22	1:J:799:GLU:H	1.81	0.46
1:J:920:TYR:CG	3:K:101:PRO:HG3	2.50	0.46
1:J:1093:GLU:HB2	1:J:1148:VAL:HG12	1.98	0.46
1:J:2012:PHE:CZ	1:J:2031:LEU:HD23	2.51	0.46
1:J:2376:LEU:O	1:J:2380:ILE:HG12	2.15	0.46
1:J:2926:LEU:O	1:J:2930:LEU:HG	2.15	0.46
1:J:3941:ASP:OD1	1:J:3942:VAL:N	2.48	0.46
1:J:4648:LEU:HD12	1:J:4803:HIS:CE1	2.51	0.46
1:J:4651:THR:HG1	1:J:4803:HIS:HE2	1.48	0.46
1:J:4677:LEU:HA	1:J:4680:LYS:NZ	2.31	0.46
1:B:2013:LYS:NZ	1:B:3664:THR:OG1	2.38	0.46
1:B:2702:CYS:O	1:B:2706:ILE:HG13	2.15	0.46
1:B:3142:THR:HA	1:B:3145:GLN:CD	2.41	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3981:ALA:O	1:B:3986:TRP:NE1	2.49	0.46
1:E:72:SER:HB2	1:E:99:ARG:HH11	1.80	0.46
1:E:783:PHE:CZ	1:E:1615:VAL:HG11	2.51	0.46
1:E:3204:ALA:HB1	1:E:3207:GLU:HB2	1.97	0.46
1:E:3524:MET:HA	1:E:3582:ARG:HH22	1.81	0.46
1:E:3776:ALA:HB1	1:E:3816:MET:HG3	1.98	0.46
1:E:3943:ILE:HG12	1:E:4009:GLN:HE22	1.80	0.46
1:E:4652:LEU:O	1:E:4656:LEU:HG	2.16	0.46
1:G:932:LEU:HA	1:G:988:LEU:HD21	1.97	0.46
1:G:1297:PHE:CD2	1:G:1522:LEU:HA	2.51	0.46
1:G:2759:ALA:HB1	1:G:2806:ARG:HA	1.98	0.46
1:G:3192:GLU:O	1:G:3196:ARG:HG2	2.15	0.46
1:G:3845:ASN:O	1:G:3848:GLU:HG2	2.16	0.46
1:G:4673:ARG:NH1	1:G:4698:LYS:HE2	2.30	0.46
1:J:1712:TYR:O	1:J:1716:ILE:HG13	2.16	0.46
1:J:2380:ILE:O	1:J:2384:ILE:HG13	2.15	0.46
1:J:2624:ARG:HG3	1:J:2625:ARG:HH21	1.81	0.46
1:J:3225:ARG:O	1:J:3229:ILE:HG23	2.16	0.46
1:J:3670:GLU:O	1:J:3674:ILE:HG12	2.15	0.46
3:C:66:ARG:HE	3:C:83:ASN:HB2	1.80	0.46
3:M:43:LYS:HD2	3:M:44:GLN:O	2.16	0.46
1:B:121:LEU:HB2	1:B:134:ASP:HB2	1.98	0.45
1:B:783:PHE:CZ	1:B:1615:VAL:HG11	2.51	0.45
1:B:792:LEU:HD22	1:B:799:GLU:H	1.81	0.45
1:B:2380:ILE:O	1:B:2384:ILE:HG13	2.15	0.45
1:B:2489:LYS:HE3	1:B:2491:SER:HB3	1.98	0.45
1:B:2505:PHE:O	1:B:2509:VAL:HG22	2.16	0.45
1:B:2874:MET:HG2	1:B:2937:VAL:HG21	1.98	0.45
1:B:3524:MET:HA	1:B:3582:ARG:HH22	1.81	0.45
1:B:4219:PHE:HD1	1:B:4950:VAL:HG11	1.81	0.45
1:E:459:LEU:HB3	1:E:463:GLU:HG3	1.98	0.45
1:E:541:SER:HA	1:E:574:VAL:HG12	1.96	0.45
1:E:1115:LEU:HD13	1:E:1193:SER:HB2	1.98	0.45
1:E:2211:MET:HE2	1:E:2272:PRO:HG3	1.97	0.45
1:E:3003:LEU:HB2	1:E:3004:PRO:HD3	1.98	0.45
1:E:4096:ALA:O	1:E:4100:GLN:HG2	2.15	0.45
1:G:121:LEU:HB2	1:G:134:ASP:HB2	1.98	0.45
1:G:2512:ILE:HG13	1:G:2565:CYS:SG	2.57	0.45
1:G:2623:LEU:O	1:G:2627:VAL:HG23	2.16	0.45
1:G:4648:LEU:HD12	1:G:4803:HIS:CE1	2.51	0.45
1:G:4652:LEU:O	1:G:4656:LEU:HG	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:311:ALA:HA	1:J:350:HIS:HE2	1.81	0.45
1:J:358:THR:HG21	1:J:382:GLY:HA2	1.98	0.45
1:J:459:LEU:HB3	1:J:463:GLU:HG3	1.98	0.45
1:J:800:PHE:HD2	1:J:804:PRO:HG3	1.81	0.45
1:J:1297:PHE:CD2	1:J:1522:LEU:HA	2.51	0.45
1:J:3524:MET:HA	1:J:3582:ARG:HH22	1.81	0.45
1:J:3906:GLN:HB2	1:J:3912:THR:HA	1.98	0.45
3:C:43:LYS:HD2	3:C:44:GLN:O	2.16	0.45
3:K:43:LYS:HD2	3:K:44:GLN:O	2.16	0.45
1:B:1256:GLU:OE1	1:B:1275:ARG:NH2	2.47	0.45
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.51	0.45
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.16	0.45
1:B:3885:PHE:HE1	1:B:3919:THR:HG23	1.81	0.45
1:E:311:ALA:HA	1:E:350:HIS:HE2	1.81	0.45
1:E:840:VAL:HG12	1:E:1199:VAL:HG12	1.99	0.45
1:E:2012:PHE:CZ	1:E:2031:LEU:HD23	2.51	0.45
1:E:2489:LYS:HE3	1:E:2491:SER:HB3	1.98	0.45
1:E:2505:PHE:O	1:E:2509:VAL:HG22	2.16	0.45
1:E:2623:LEU:O	1:E:2627:VAL:HG23	2.16	0.45
1:E:4105:GLY:HA2	1:E:4108:ILE:HG12	1.98	0.45
1:G:790:ARG:HD2	1:G:1624:LEU:HB3	1.97	0.45
1:G:1093:GLU:HB2	1:G:1148:VAL:HG12	1.98	0.45
1:G:2624:ARG:HG3	1:G:2625:ARG:HH21	1.81	0.45
1:G:2874:MET:HG2	1:G:2937:VAL:HG21	1.98	0.45
1:G:2926:LEU:O	1:G:2930:LEU:HG	2.16	0.45
1:G:3157:ILE:HG22	1:G:3157:ILE:O	2.15	0.45
1:G:3198:ALA:HA	1:G:3201:MET:HG3	1.97	0.45
1:G:3702:VAL:HG11	1:G:3773:ARG:HB3	1.98	0.45
1:G:3893:GLU:HA	1:G:3967:GLU:OE2	2.16	0.45
1:J:399:GLN:HG2	1:J:403:MET:HE1	1.98	0.45
1:J:840:VAL:HG12	1:J:1199:VAL:HG12	1.99	0.45
1:J:1024:TYR:OH	1:J:1036:ARG:HG3	2.15	0.45
1:J:1115:LEU:HD13	1:J:1193:SER:HB2	1.98	0.45
1:J:2588:ARG:NH1	1:J:2901:THR:HB	2.31	0.45
1:J:2874:MET:HG2	1:J:2937:VAL:HG21	1.98	0.45
1:J:3057:PHE:HB2	1:J:3060:ASP:HB2	1.98	0.45
1:J:3658:LYS:HB2	1:J:3658:LYS:HE3	1.79	0.45
1:J:4105:GLY:HA2	1:J:4108:ILE:HG12	1.98	0.45
2:H:78:PRO:HG3	2:H:95:ALA:H	1.81	0.45
2:I:78:PRO:HG3	2:I:95:ALA:H	1.81	0.45
3:K:111:ASN:O	3:K:114:TYR:HB2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:LEU:HA	1:B:137:LEU:HD23	1.99	0.45
1:B:1561:VAL:HG23	1:B:1562:ILE:N	2.32	0.45
1:B:1704:PRO:O	1:B:1708:ARG:HG2	2.16	0.45
1:B:3319:ILE:O	1:B:3322:ILE:HG22	2.16	0.45
1:E:597:HIS:HB2	1:E:1665:HIS:CG	2.50	0.45
1:E:869:ARG:HE	1:E:941:MET:HE1	1.82	0.45
1:E:4219:PHE:HD1	1:E:4950:VAL:HG11	1.81	0.45
1:E:4953:ASP:O	1:E:4956:THR:OG1	2.29	0.45
1:G:1066:GLN:HA	1:G:1069:TRP:HE3	1.81	0.45
1:G:2992:GLU:O	1:G:2996:LYS:HG2	2.16	0.45
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.15	0.45
1:J:2623:LEU:O	1:J:2627:VAL:HG23	2.16	0.45
1:J:2625:ARG:HH22	1:J:2907:PRO:HD2	1.82	0.45
2:H:15:PHE:CE1	2:H:67:SER:HB3	2.50	0.45
3:F:66:ARG:HE	3:F:83:ASN:HB2	1.80	0.45
1:B:790:ARG:HD2	1:B:1624:LEU:HB3	1.97	0.45
1:B:2759:ALA:HB1	1:B:2806:ARG:HA	1.98	0.45
1:B:3057:PHE:HB2	1:B:3060:ASP:HB2	1.98	0.45
1:B:3225:ARG:O	1:B:3229:ILE:HG23	2.16	0.45
1:B:3511:VAL:O	1:B:3516:LYS:HG2	2.17	0.45
1:B:3828:PHE:O	1:B:3832:ILE:HG12	2.17	0.45
1:E:358:THR:HG21	1:E:382:GLY:HA2	1.98	0.45
1:E:1802:ILE:O	1:E:1804:LEU:HD22	2.17	0.45
1:E:2293:GLN:HA	1:E:2296:GLU:HG3	1.98	0.45
1:E:2874:MET:HG2	1:E:2937:VAL:HG21	1.98	0.45
1:E:2992:GLU:O	1:E:2996:LYS:HG2	2.16	0.45
1:E:3163:VAL:HA	1:E:3166:TYR:HD2	1.82	0.45
1:G:2117:VAL:HA	1:G:2120:MET:HG2	1.98	0.45
1:G:3776:ALA:HB1	1:G:3816:MET:HG3	1.98	0.45
1:G:4664:LEU:HD12	1:G:4665:LYS:HB2	1.98	0.45
1:J:1000:ARG:HB3	1:J:1005:TRP:HB2	1.97	0.45
1:J:1802:ILE:O	1:J:1804:LEU:HD22	2.17	0.45
1:J:2739:PRO:HG3	1:J:2888:ARG:HG2	1.97	0.45
1:J:2806:ARG:HH11	1:J:2810:LYS:HG3	1.81	0.45
1:J:2992:GLU:O	1:J:2996:LYS:HG2	2.16	0.45
1:J:3142:THR:HA	1:J:3145:GLN:CD	2.41	0.45
1:J:3163:VAL:HA	1:J:3166:TYR:HD2	1.82	0.45
1:J:3384:LYS:HG2	1:J:3386:GLU:H	1.82	0.45
1:J:3702:VAL:HG11	1:J:3773:ARG:HB3	1.98	0.45
1:J:3893:GLU:HA	1:J:3967:GLU:OE2	2.16	0.45
1:J:4024:VAL:HA	1:J:4027:LEU:HD12	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4772:ASP:OD1	1:J:4772:ASP:N	2.49	0.45
1:J:4879:MET:HG2	1:J:4880:MET:HE3	1.97	0.45
3:C:64:LYS:HG3	3:C:86:LYS:NZ	2.31	0.45
3:F:64:LYS:HG3	3:F:86:LYS:NZ	2.32	0.45
3:M:66:ARG:HE	3:M:83:ASN:HB2	1.80	0.45
1:B:829:TYR:HB2	1:B:1075:PHE:CE1	2.50	0.45
1:B:1000:ARG:HB3	1:B:1005:TRP:HB2	1.97	0.45
1:B:2587:TYR:OH	1:B:2629:ASP:OD2	2.27	0.45
1:B:2615:ARG:NH1	1:B:2618:MET:HE1	2.32	0.45
1:B:3339:ALA:O	1:B:3343:GLN:HG2	2.15	0.45
1:E:2588:ARG:NH1	1:E:2901:THR:HB	2.31	0.45
1:E:2615:ARG:NH1	1:E:2618:MET:HE1	2.32	0.45
1:E:3142:THR:HA	1:E:3145:GLN:CD	2.41	0.45
1:E:4677:LEU:HA	1:E:4680:LYS:NZ	2.31	0.45
1:E:4704:LEU:HA	1:E:4774:LYS:HE2	1.99	0.45
1:G:783:PHE:CZ	1:G:1615:VAL:HG11	2.51	0.45
1:G:1741:GLU:O	1:G:1745:ILE:HG13	2.17	0.45
1:G:3339:ALA:O	1:G:3343:GLN:HG2	2.15	0.45
1:G:3511:VAL:O	1:G:3516:LYS:HG2	2.17	0.45
1:J:2110:TYR:HB2	1:J:3694:LYS:HB2	1.99	0.45
1:J:2512:ILE:HG13	1:J:2565:CYS:SG	2.57	0.45
1:J:2575:ARG:NH1	1:J:2575:ARG:HA	2.30	0.45
1:J:3204:ALA:HB1	1:J:3207:GLU:HB2	1.97	0.45
1:J:4856:PHE:HA	1:J:4876:CYS:SG	2.56	0.45
3:F:104:TYR:CD1	3:F:104:TYR:C	2.95	0.45
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.17	0.45
1:B:2625:ARG:HH22	1:B:2907:PRO:HD2	1.82	0.45
1:B:2806:ARG:HH11	1:B:2810:LYS:HG3	1.81	0.45
1:B:3906:GLN:HB2	1:B:3912:THR:HA	1.98	0.45
1:B:4048:LEU:HD11	1:B:4150:LEU:HD13	1.98	0.45
1:B:4131:ARG:HG3	1:B:4132:PHE:CD1	2.52	0.45
1:B:4648:LEU:HD12	1:B:4803:HIS:CE1	2.51	0.45
1:B:4704:LEU:HA	1:B:4774:LYS:HE2	1.99	0.45
1:B:4856:PHE:HA	1:B:4876:CYS:SG	2.56	0.45
1:B:5003:HIS:HD2	1:B:5007:GLU:HB3	1.82	0.45
1:E:710:ASP:OD1	1:E:711:LEU:N	2.49	0.45
1:E:920:TYR:CG	3:F:101:PRO:HG3	2.51	0.45
1:E:1000:ARG:HB3	1:E:1005:TRP:HB2	1.97	0.45
1:E:2512:ILE:HG13	1:E:2565:CYS:SG	2.57	0.45
1:E:2627:VAL:O	1:E:2631:PRO:HD3	2.17	0.45
1:E:3319:ILE:O	1:E:3322:ILE:HG22	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3906:GLN:HB2	1:E:3912:THR:HA	1.98	0.45
1:G:2739:PRO:HG3	1:G:2888:ARG:HG2	1.98	0.45
1:G:3142:THR:HA	1:G:3145:GLN:CD	2.41	0.45
1:G:3937:TYR:OH	1:G:3944:GLU:HG2	2.17	0.45
1:G:4105:GLY:HA2	1:G:4108:ILE:HG12	1.99	0.45
1:G:4838:VAL:HA	1:G:4841:VAL:HG22	1.99	0.45
1:G:4856:PHE:HA	1:G:4876:CYS:SG	2.56	0.45
1:J:783:PHE:CZ	1:J:1615:VAL:HG11	2.51	0.45
1:J:2355:ARG:HD3	1:J:2358:ILE:HD11	1.99	0.45
1:J:2694:GLU:O	1:J:2698:MET:HG3	2.17	0.45
1:J:2892:GLN:O	1:J:2895:GLU:HG2	2.16	0.45
1:J:3266:MET:HG2	1:J:3266:MET:O	2.16	0.45
1:J:3828:PHE:O	1:J:3832:ILE:HG12	2.17	0.45
1:J:4648:LEU:HD12	1:J:4803:HIS:HE1	1.81	0.45
1:J:4666:VAL:O	1:J:4670:ILE:HG12	2.15	0.45
3:K:5:GLN:HE21	3:K:23:THR:HG1	1.59	0.45
1:B:1115:LEU:HD13	1:B:1193:SER:HB2	1.98	0.45
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.98	0.45
1:B:3163:VAL:HA	1:B:3166:TYR:HD2	1.82	0.45
1:B:4105:GLY:HA2	1:B:4108:ILE:HG12	1.99	0.45
1:B:4648:LEU:HD12	1:B:4803:HIS:HE1	1.81	0.45
1:E:114:SER:HB3	1:E:116:MET:HB3	1.98	0.45
1:E:1066:GLN:HA	1:E:1069:TRP:HE3	1.81	0.45
1:E:1297:PHE:CD2	1:E:1522:LEU:HA	2.51	0.45
1:E:1561:VAL:HG23	1:E:1562:ILE:HG12	1.99	0.45
1:E:2110:TYR:HB2	1:E:3694:LYS:HB2	1.99	0.45
1:E:2215:LEU:HD11	1:E:2229:VAL:HG22	1.99	0.45
1:E:2625:ARG:HH22	1:E:2907:PRO:HD2	1.82	0.45
1:E:2751:LEU:HD12	1:E:2823:ILE:HD11	1.99	0.45
1:E:4024:VAL:HA	1:E:4027:LEU:HD12	1.99	0.45
1:G:399:GLN:HG2	1:G:403:MET:HE1	1.98	0.45
1:G:1115:LEU:HD13	1:G:1193:SER:HB2	1.99	0.45
1:G:2247:GLN:HG3	1:G:2279:SER:HA	1.99	0.45
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.15	0.45
1:G:2499:LYS:HA	1:G:2502:MET:HE2	1.98	0.45
1:G:2505:PHE:O	1:G:2509:VAL:HG22	2.16	0.45
1:G:2751:LEU:HD12	1:G:2823:ILE:HD11	1.99	0.45
1:G:2957:PHE:HE2	1:G:3034:LYS:HG3	1.81	0.45
1:G:3524:MET:HA	1:G:3582:ARG:HH22	1.81	0.45
1:G:3828:PHE:O	1:G:3832:ILE:HG12	2.17	0.45
1:G:4648:LEU:HD12	1:G:4803:HIS:HE1	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:118:LEU:HA	1:J:137:LEU:HD23	1.99	0.45
1:J:247:TYR:CD2	1:J:374:LYS:HB2	2.52	0.45
1:J:869:ARG:HE	1:J:941:MET:HE1	1.82	0.45
1:J:990:GLU:O	1:J:994:ASN:HB2	2.17	0.45
1:J:1561:VAL:HG23	1:J:1562:ILE:N	2.32	0.45
1:J:3414:ARG:HE	1:J:3475:LYS:C	2.25	0.45
2:I:9:PRO:HA	2:I:70:GLN:HE22	1.82	0.45
1:B:840:VAL:HG12	1:B:1199:VAL:HG12	1.99	0.45
1:B:869:ARG:HE	1:B:941:MET:HE1	1.82	0.45
1:B:1078:GLU:HG2	1:B:1080:SER:H	1.82	0.45
1:B:2957:PHE:HE2	1:B:3034:LYS:HG3	1.81	0.45
1:B:3384:LYS:HG2	1:B:3386:GLU:H	1.82	0.45
1:B:3719:ASP:HB2	1:B:3722:TYR:HB3	1.98	0.45
1:B:4677:LEU:HA	1:B:4680:LYS:NZ	2.31	0.45
1:E:399:GLN:HG2	1:E:403:MET:HE1	1.98	0.45
1:E:1561:VAL:HG23	1:E:1562:ILE:N	2.32	0.45
1:E:2117:VAL:HA	1:E:2120:MET:HG2	1.98	0.45
1:E:2368:LEU:HD11	1:E:2376:LEU:HB2	1.98	0.45
1:E:2759:ALA:HB1	1:E:2806:ARG:HA	1.98	0.45
1:E:2926:LEU:O	1:E:2930:LEU:HG	2.15	0.45
1:E:3172:ILE:O	1:E:3175:LEU:HG	2.17	0.45
1:E:3384:LYS:HG2	1:E:3386:GLU:H	1.82	0.45
1:E:3414:ARG:HE	1:E:3475:LYS:C	2.25	0.45
1:E:3845:ASN:O	1:E:3848:GLU:HG2	2.16	0.45
1:E:5003:HIS:HD2	1:E:5007:GLU:HB3	1.82	0.45
1:G:248:GLU:HA	1:G:372:LEU:O	2.17	0.45
1:G:895:PRO:HA	1:G:905:PRO:O	2.17	0.45
1:G:1802:ILE:O	1:G:1804:LEU:HD22	2.17	0.45
1:G:2747:ILE:HD11	1:G:2751:LEU:HD11	1.99	0.45
1:G:3384:LYS:NZ	1:G:3386:GLU:OE1	2.48	0.45
1:G:5003:HIS:HD2	1:G:5007:GLU:HB3	1.82	0.45
1:J:2499:LYS:HA	1:J:2502:MET:HE2	1.98	0.45
1:J:3319:ILE:O	1:J:3322:ILE:HG22	2.16	0.45
1:J:4838:VAL:HA	1:J:4841:VAL:HG22	1.99	0.45
2:D:9:PRO:HA	2:D:70:GLN:HE22	1.82	0.45
3:K:104:TYR:C	3:K:104:TYR:CD1	2.94	0.45
1:B:311:ALA:HA	1:B:350:HIS:HE2	1.81	0.45
1:B:1802:ILE:O	1:B:1804:LEU:HD22	2.17	0.45
1:B:2512:ILE:HG13	1:B:2565:CYS:SG	2.57	0.45
1:B:2694:GLU:O	1:B:2698:MET:HG3	2.16	0.45
1:B:3776:ALA:HB1	1:B:3816:MET:HG3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3961:VAL:O	1:B:3965:LEU:HG	2.17	0.45
1:E:2892:GLN:O	1:E:2895:GLU:HG2	2.16	0.45
1:E:3828:PHE:O	1:E:3832:ILE:HG12	2.17	0.45
1:E:3885:PHE:HE1	1:E:3919:THR:HG23	1.81	0.45
1:E:4648:LEU:HD12	1:E:4803:HIS:CE1	2.51	0.45
1:G:1037:ASP:O	1:G:1041:GLN:HG2	2.17	0.45
1:G:2615:ARG:NH1	1:G:2618:MET:HE1	2.32	0.45
1:G:2694:GLU:O	1:G:2698:MET:HG3	2.16	0.45
1:G:3319:ILE:O	1:G:3322:ILE:HG22	2.16	0.45
1:J:1741:GLU:O	1:J:1745:ILE:HG13	2.17	0.45
1:J:2247:GLN:HG3	1:J:2279:SER:HA	1.99	0.45
1:J:2505:PHE:O	1:J:2509:VAL:HG22	2.16	0.45
1:J:3037:GLU:HB2	1:J:3085:PRO:HG2	1.99	0.45
1:J:3343:GLN:O	1:J:3346:VAL:HG12	2.17	0.45
1:J:3445:TRP:HD1	1:J:3451:PHE:CE2	2.35	0.45
1:J:3511:VAL:O	1:J:3516:LYS:HG2	2.17	0.45
1:J:4219:PHE:HD1	1:J:4950:VAL:HG11	1.81	0.45
2:A:78:PRO:HG3	2:A:95:ALA:H	1.81	0.45
3:C:104:TYR:C	3:C:104:TYR:CD1	2.95	0.45
1:B:871:ARG:NH1	1:B:922:LEU:HD22	2.32	0.45
1:B:3021:PRO:HD3	1:B:3036:LYS:NZ	2.32	0.45
1:B:3752:SER:HB2	1:B:3755:GLU:HG3	1.99	0.45
1:E:1078:GLU:HG2	1:E:1080:SER:H	1.82	0.45
1:E:2747:ILE:HD11	1:E:2751:LEU:HD11	1.99	0.45
1:E:2788:HIS:CD2	1:E:2789:PRO:HD2	2.52	0.45
1:E:3937:TYR:OH	1:E:3944:GLU:HG2	2.17	0.45
1:G:800:PHE:HD2	1:G:804:PRO:HG3	1.81	0.45
1:G:2506:LEU:HD12	1:G:2510:TYR:HB2	1.99	0.45
1:G:2627:VAL:O	1:G:2631:PRO:HD3	2.17	0.45
1:G:3172:ILE:O	1:G:3175:LEU:HG	2.17	0.45
1:G:3445:TRP:HD1	1:G:3451:PHE:CE2	2.35	0.45
1:G:3752:SER:HB2	1:G:3755:GLU:HG3	1.99	0.45
1:G:3961:VAL:O	1:G:3965:LEU:HG	2.17	0.45
1:G:3981:ALA:O	1:G:3986:TRP:NE1	2.49	0.45
1:J:2615:ARG:NH1	1:J:2618:MET:HE1	2.32	0.45
1:J:2627:VAL:O	1:J:2631:PRO:HD3	2.17	0.45
1:J:2754:PHE:HE1	1:J:2933:ASN:ND2	2.13	0.45
1:J:3206:LEU:HD11	1:J:3276:MET:SD	2.57	0.45
1:J:3752:SER:O	1:J:3756:LYS:HG3	2.17	0.45
1:J:3961:VAL:O	1:J:3965:LEU:HG	2.17	0.45
3:C:14:ALA:HA	3:C:85:LEU:HB2	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:43:LYS:HD2	3:F:44:GLN:O	2.16	0.45
3:M:64:LYS:HG3	3:M:86:LYS:NZ	2.31	0.45
1:B:1455:PRO:HG3	1:B:1549:PHE:HE1	1.82	0.44
1:B:1508:ARG:HH21	1:E:2773:ASN:HA	1.82	0.44
1:B:2215:LEU:HD11	1:B:2229:VAL:HG22	1.99	0.44
1:E:277:GLY:N	1:E:316:PHE:O	2.45	0.44
1:E:2694:GLU:O	1:E:2698:MET:HG3	2.17	0.44
1:E:2928:LYS:HB3	1:E:2932:MET:HE1	2.00	0.44
1:E:3719:ASP:HB2	1:E:3722:TYR:HB3	1.98	0.44
1:E:4048:LEU:HD11	1:E:4150:LEU:HD13	1.98	0.44
1:E:4838:VAL:HA	1:E:4841:VAL:HG22	1.99	0.44
1:G:840:VAL:HG12	1:G:1199:VAL:HG12	1.99	0.44
1:G:880:GLU:O	1:G:884:LEU:HG	2.17	0.44
1:G:990:GLU:O	1:G:994:ASN:HB2	2.17	0.44
1:G:2489:LYS:HE3	1:G:2491:SER:HB3	1.98	0.44
1:G:2773:ASN:HA	1:J:1508:ARG:HH21	1.82	0.44
1:G:3057:PHE:HB2	1:G:3060:ASP:HB2	1.98	0.44
1:G:3321:ARG:HA	1:G:3324:VAL:HG12	2.00	0.44
1:G:3367:LYS:O	1:G:3371:LYS:HG2	2.17	0.44
1:G:3414:ARG:HE	1:G:3475:LYS:C	2.25	0.44
1:G:4232:GLU:OE1	1:G:5019:TRP:NE1	2.45	0.44
1:G:4953:ASP:O	1:G:4956:THR:OG1	2.29	0.44
1:J:1042:ALA:O	1:J:1046:LEU:HG	2.17	0.44
1:J:1623:ARG:HA	1:J:1623:ARG:HH11	1.82	0.44
1:J:2759:ALA:HB1	1:J:2806:ARG:HA	1.98	0.44
1:J:2788:HIS:CD2	1:J:2789:PRO:HD2	2.52	0.44
1:J:2911:LEU:HD22	1:J:2915:GLU:OE2	2.17	0.44
1:J:3172:ILE:O	1:J:3175:LEU:HG	2.17	0.44
1:J:3326:ASN:ND2	1:J:3335:MET:HE1	2.33	0.44
3:K:14:ALA:HA	3:K:85:LEU:HB2	1.98	0.44
3:M:14:ALA:HA	3:M:85:LEU:HB2	1.98	0.44
1:B:954:LYS:HA	1:B:954:LYS:HD2	1.77	0.44
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	2.00	0.44
1:B:2820:GLU:HG3	1:B:2821:TRP:CD1	2.53	0.44
1:B:3172:ILE:O	1:B:3175:LEU:HG	2.17	0.44
1:B:3718:GLU:CD	1:B:3723:MET:HE1	2.43	0.44
1:B:3884:LEU:O	1:B:3888:LEU:HG	2.18	0.44
1:B:4122:MET:HE3	1:B:4123:ILE:N	2.28	0.44
1:E:121:LEU:HB2	1:E:134:ASP:HB2	1.98	0.44
1:E:2355:ARG:HD3	1:E:2358:ILE:HD11	1.99	0.44
1:E:2506:LEU:HD12	1:E:2510:TYR:HB2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1105:ALA:O	1:G:1189:LEU:N	2.46	0.44
1:G:1723:ALA:O	1:G:1727:ARG:HD3	2.18	0.44
1:G:2110:TYR:HB2	1:G:3694:LYS:HB2	1.99	0.44
1:G:3003:LEU:HB2	1:G:3004:PRO:HD3	1.98	0.44
1:G:3037:GLU:HB2	1:G:3085:PRO:HG2	1.99	0.44
1:G:3225:ARG:O	1:G:3229:ILE:HG23	2.16	0.44
1:G:4131:ARG:HG3	1:G:4132:PHE:CD1	2.52	0.44
1:G:4651:THR:OG1	1:G:4803:HIS:NE2	2.35	0.44
1:G:4704:LEU:HA	1:G:4774:LYS:HE2	1.99	0.44
1:J:114:SER:HB3	1:J:116:MET:HB3	1.98	0.44
1:J:1078:GLU:OE1	1:J:1235:THR:OG1	2.34	0.44
1:J:2368:LEU:HD11	1:J:2376:LEU:HB2	1.98	0.44
1:J:2928:LYS:HB3	1:J:2932:MET:HE1	2.00	0.44
1:J:3884:LEU:O	1:J:3888:LEU:HG	2.17	0.44
1:J:4013:LEU:O	1:J:4017:LEU:HG	2.17	0.44
1:J:4581:LYS:HG2	1:J:4632:LEU:HB2	2.00	0.44
2:D:78:PRO:HG3	2:D:95:ALA:H	1.81	0.44
2:H:9:PRO:HA	2:H:70:GLN:HE22	1.82	0.44
3:M:53:SER:C	3:M:55:ASN:H	2.25	0.44
1:B:880:GLU:O	1:B:884:LEU:HG	2.17	0.44
1:B:1042:ALA:O	1:B:1046:LEU:HG	2.17	0.44
1:B:2318:TYR:HA	1:B:2395:PRO:HA	1.99	0.44
1:B:2495:VAL:HG22	1:B:2497:ASP:H	1.83	0.44
1:B:4559:PHE:CE1	1:B:4661:TYR:HB2	2.53	0.44
1:B:4838:VAL:HA	1:B:4841:VAL:HG22	1.99	0.44
1:E:871:ARG:NH1	1:E:922:LEU:HD22	2.32	0.44
1:E:1245:PHE:CD2	1:E:1290:ARG:HG2	2.52	0.44
1:E:2495:VAL:HG22	1:E:2497:ASP:H	1.83	0.44
1:E:3057:PHE:HB2	1:E:3060:ASP:HB2	1.98	0.44
1:E:3672:ARG:NH1	1:E:3676:ASP:OD2	2.51	0.44
1:G:2610:LEU:O	1:G:2614:ILE:HG12	2.18	0.44
1:G:2625:ARG:HH22	1:G:2907:PRO:HD2	1.82	0.44
1:G:2820:GLU:HG3	1:G:2821:TRP:CD1	2.53	0.44
1:G:2892:GLN:O	1:G:2895:GLU:HG2	2.16	0.44
1:G:3021:PRO:HD3	1:G:3036:LYS:NZ	2.32	0.44
1:G:3164:SER:O	1:G:3168:THR:HG23	2.16	0.44
1:G:3343:GLN:O	1:G:3346:VAL:HG12	2.17	0.44
1:G:3752:SER:O	1:G:3756:LYS:HG3	2.17	0.44
1:G:3906:GLN:HB2	1:G:3912:THR:HA	1.98	0.44
1:J:1723:ALA:O	1:J:1727:ARG:HD3	2.18	0.44
1:J:2747:ILE:HD11	1:J:2751:LEU:HD11	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3439:GLY:O	1:J:3443:ILE:HG23	2.18	0.44
1:J:3724:ALA:O	1:J:3728:ILE:HG13	2.17	0.44
1:B:384:MET:SD	1:B:384:MET:N	2.85	0.44
1:B:626:LEU:HB3	2:A:89:GLY:O	2.17	0.44
1:B:947:GLU:HA	1:B:950:LEU:HD12	2.00	0.44
1:B:2499:LYS:HA	1:B:2502:MET:HE2	1.98	0.44
1:B:2563:THR:HG22	1:B:2606:CYS:HA	2.00	0.44
1:B:2892:GLN:O	1:B:2895:GLU:HG2	2.16	0.44
1:B:2967:MET:HE3	1:B:3045:LYS:CD	2.48	0.44
1:B:2992:GLU:O	1:B:2996:LYS:HG2	2.16	0.44
1:B:3263:TYR:HE1	1:B:3326:ASN:ND2	2.16	0.44
1:B:3343:GLN:O	1:B:3346:VAL:HG12	2.17	0.44
1:B:3367:LYS:O	1:B:3371:LYS:HG2	2.17	0.44
1:B:3702:VAL:HG11	1:B:3773:ARG:HB3	1.98	0.44
1:B:4128:PHE:HA	1:B:4131:ARG:NE	2.32	0.44
1:E:118:LEU:HA	1:E:137:LEU:HD23	1.99	0.44
1:E:947:GLU:HA	1:E:950:LEU:HD12	2.00	0.44
1:E:1041:GLN:O	1:E:1045:THR:HG23	2.17	0.44
1:E:3445:TRP:HD1	1:E:3451:PHE:CE2	2.35	0.44
1:E:3724:ALA:O	1:E:3728:ILE:HG13	2.17	0.44
1:E:3884:LEU:O	1:E:3888:LEU:HG	2.18	0.44
1:E:4573:ILE:HG12	1:E:4646:LEU:HB3	1.99	0.44
1:E:4648:LEU:HD12	1:E:4803:HIS:HE1	1.81	0.44
1:G:311:ALA:HA	1:G:350:HIS:HE2	1.81	0.44
1:G:414:PHE:CD1	1:G:441:VAL:HG21	2.53	0.44
1:G:792:LEU:HD22	1:G:799:GLU:H	1.81	0.44
1:G:920:TYR:CD2	3:M:101:PRO:HG3	2.53	0.44
1:G:1561:VAL:HG23	1:G:1562:ILE:N	2.32	0.44
1:G:2911:LEU:HD22	1:G:2915:GLU:OE2	2.17	0.44
1:G:3180:ASN:OD1	1:G:3181:THR:N	2.51	0.44
1:G:3326:ASN:ND2	1:G:3335:MET:HE1	2.33	0.44
1:G:4024:VAL:HA	1:G:4027:LEU:HD12	1.99	0.44
1:G:4219:PHE:HD1	1:G:4950:VAL:HG11	1.81	0.44
1:G:4581:LYS:HG2	1:G:4632:LEU:HB2	2.00	0.44
1:G:4948:GLU:HA	1:G:4951:LYS:NZ	2.32	0.44
1:J:121:LEU:HB2	1:J:134:ASP:HB2	1.98	0.44
1:J:880:GLU:O	1:J:884:LEU:HG	2.17	0.44
1:J:947:GLU:HA	1:J:950:LEU:HD12	2.00	0.44
1:J:2489:LYS:HE3	1:J:2491:SER:HB3	1.98	0.44
1:J:2610:LEU:O	1:J:2614:ILE:HG12	2.18	0.44
1:J:3003:LEU:HB2	1:J:3004:PRO:HD3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3719:ASP:HB2	1:J:3722:TYR:HB3	1.98	0.44
1:J:3937:TYR:OH	1:J:3944:GLU:HG2	2.17	0.44
1:J:3955:MET:CE	1:J:4015:GLU:HG2	2.48	0.44
1:J:4580:TYR:CE2	1:J:4807:PHE:HE1	2.36	0.44
1:J:4704:LEU:HA	1:J:4774:LYS:HE2	1.99	0.44
2:A:9:PRO:HA	2:A:70:GLN:HE22	1.82	0.44
1:B:1041:GLN:O	1:B:1045:THR:HG23	2.17	0.44
1:B:1561:VAL:HG23	1:B:1562:ILE:HG12	1.99	0.44
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.18	0.44
1:B:2368:LEU:HD11	1:B:2376:LEU:HB2	1.98	0.44
1:B:2911:LEU:HD22	1:B:2915:GLU:OE2	2.17	0.44
1:B:3192:GLU:OE1	1:B:3196:ARG:NH2	2.51	0.44
1:B:3414:ARG:HE	1:B:3475:LYS:C	2.25	0.44
1:B:3937:TYR:OH	1:B:3944:GLU:HG2	2.17	0.44
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.17	0.44
1:E:2911:LEU:HD22	1:E:2915:GLU:OE2	2.17	0.44
1:E:3511:VAL:O	1:E:3516:LYS:HG2	2.17	0.44
1:E:3730:ALA:O	1:E:3734:HIS:CD2	2.71	0.44
1:E:4558:ASN:O	1:E:4562:LEU:HG	2.17	0.44
1:E:4559:PHE:CE1	1:E:4661:TYR:HB2	2.52	0.44
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.17	0.44
1:G:1245:PHE:CD2	1:G:1290:ARG:HG2	2.52	0.44
1:G:1623:ARG:HA	1:G:1623:ARG:HH11	1.82	0.44
1:G:2368:LEU:HD11	1:G:2376:LEU:HB2	1.98	0.44
1:G:2867:LEU:HG	1:G:2868:SER:H	1.83	0.44
1:G:3163:VAL:HA	1:G:3166:TYR:HD2	1.82	0.44
1:G:3439:GLY:O	1:G:3443:ILE:HG23	2.18	0.44
1:G:3730:ALA:O	1:G:3734:HIS:CD2	2.71	0.44
1:G:3885:PHE:HE1	1:G:3919:THR:HG23	1.81	0.44
1:G:4580:TYR:CE2	1:G:4807:PHE:HE1	2.36	0.44
1:J:2293:GLN:HA	1:J:2296:GLU:HG3	1.98	0.44
1:J:2563:THR:HG22	1:J:2606:CYS:HA	2.00	0.44
1:J:2967:MET:HE3	1:J:3045:LYS:CD	2.48	0.44
1:J:3885:PHE:HE1	1:J:3919:THR:HG23	1.82	0.44
1:B:414:PHE:CD1	1:B:441:VAL:HG21	2.53	0.44
1:B:2747:ILE:HD11	1:B:2751:LEU:HD11	1.99	0.44
1:B:3321:ARG:HA	1:B:3324:VAL:HG12	2.00	0.44
1:B:3439:GLY:O	1:B:3443:ILE:HG23	2.18	0.44
1:B:3760:LYS:HA	1:B:3760:LYS:HD3	1.86	0.44
1:E:100:THR:HG21	1:E:162:LYS:HD3	2.00	0.44
1:E:148:TRP:HA	1:E:173:SER:HA	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:210:GLU:HG3	1:E:213:TYR:HB2	1.99	0.44
1:E:990:GLU:O	1:E:994:ASN:HB2	2.17	0.44
1:E:1455:PRO:HG3	1:E:1549:PHE:HE1	1.82	0.44
1:E:2499:LYS:HA	1:E:2502:MET:HE2	1.98	0.44
1:E:2820:GLU:HG3	1:E:2821:TRP:CD1	2.53	0.44
1:E:3326:ASN:ND2	1:E:3335:MET:HE1	2.33	0.44
1:E:3343:GLN:O	1:E:3346:VAL:HG12	2.17	0.44
1:E:3702:VAL:HG11	1:E:3773:ARG:HB3	1.98	0.44
1:E:3752:SER:O	1:E:3756:LYS:HG3	2.17	0.44
1:E:3934:TYR:CE1	1:E:3999:MET:HB2	2.53	0.44
1:G:114:SER:HB3	1:G:116:MET:HB3	1.98	0.44
1:G:869:ARG:HE	1:G:941:MET:HE1	1.82	0.44
1:G:1000:ARG:HB3	1:G:1005:TRP:HB2	1.97	0.44
1:G:1116:GLY:HA3	1:G:1132:TRP:HB3	2.00	0.44
1:G:1291:LEU:HB3	1:G:1595:LEU:HD11	2.00	0.44
1:G:2230:THR:O	1:G:2234:ARG:HG3	2.18	0.44
1:G:2967:MET:HE3	1:G:3045:LYS:CD	2.48	0.44
1:G:4558:ASN:O	1:G:4562:LEU:HG	2.17	0.44
1:J:871:ARG:NH1	1:J:922:LEU:HD22	2.33	0.44
1:J:2263:ILE:HA	1:J:2330:ARG:HH12	1.83	0.44
1:J:2593:ARG:H	1:J:2593:ARG:HD3	1.82	0.44
1:J:3019:SER:OG	1:J:3023:LYS:O	2.26	0.44
1:J:3320:LEU:HD22	1:J:3357:HIS:HB3	2.00	0.44
1:J:3321:ARG:HA	1:J:3324:VAL:HG12	1.99	0.44
1:J:3845:ASN:O	1:J:3848:GLU:HG2	2.16	0.44
1:B:114:SER:HB3	1:B:116:MET:HB3	1.98	0.44
1:B:990:GLU:O	1:B:994:ASN:HB2	2.17	0.44
1:B:1066:GLN:HA	1:B:1069:TRP:HE3	1.81	0.44
1:B:1727:ARG:HH21	1:B:1775:HIS:HA	1.82	0.44
1:B:2110:TYR:HB2	1:B:3694:LYS:HB2	1.99	0.44
1:B:2247:GLN:HG3	1:B:2279:SER:HA	1.99	0.44
1:B:2751:LEU:HD12	1:B:2823:ILE:HD11	1.99	0.44
1:B:3955:MET:CE	1:B:4015:GLU:HG2	2.48	0.44
1:B:4581:LYS:HG2	1:B:4632:LEU:HB2	2.00	0.44
1:B:4931:ILE:O	1:B:4935:LEU:HG	2.18	0.44
1:E:283:ARG:HG2	1:E:284:HIS:N	2.33	0.44
1:E:2967:MET:HE3	1:E:3045:LYS:CD	2.48	0.44
1:E:3019:SER:OG	1:E:3023:LYS:O	2.26	0.44
1:E:3192:GLU:OE1	1:E:3196:ARG:NH2	2.51	0.44
1:E:3263:TYR:HE1	1:E:3326:ASN:ND2	2.16	0.44
1:E:3320:LEU:HD22	1:E:3357:HIS:HB3	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3752:SER:HB2	1:E:3755:GLU:HG3	1.99	0.44
1:G:3192:GLU:OE1	1:G:3196:ARG:NH2	2.51	0.44
1:G:3320:LEU:HD22	1:G:3357:HIS:HB3	2.00	0.44
1:J:148:TRP:HA	1:J:173:SER:HA	2.00	0.44
1:J:1041:GLN:O	1:J:1045:THR:HG23	2.17	0.44
1:J:1780:PRO:HG2	2:I:42:ARG:HD3	2.00	0.44
1:J:5003:HIS:HD2	1:J:5007:GLU:HB3	1.82	0.44
3:F:14:ALA:HA	3:F:85:LEU:HB2	1.98	0.44
3:K:64:LYS:HG3	3:K:86:LYS:NZ	2.31	0.44
1:B:100:THR:HG21	1:B:162:LYS:HD3	2.00	0.44
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.17	0.44
1:B:2506:LEU:HD12	1:B:2510:TYR:HB2	1.99	0.44
1:B:2610:LEU:O	1:B:2614:ILE:HG12	2.18	0.44
1:B:2627:VAL:O	1:B:2631:PRO:HD3	2.17	0.44
1:B:4013:LEU:O	1:B:4017:LEU:HG	2.17	0.44
1:B:4024:VAL:HA	1:B:4027:LEU:HD12	1.99	0.44
1:B:4573:ILE:HG12	1:B:4646:LEU:HB3	2.00	0.44
1:B:4580:TYR:CE2	1:B:4807:PHE:HE1	2.36	0.44
1:E:1691:GLN:NE2	1:E:1803:PRO:HD2	2.33	0.44
1:E:2593:ARG:H	1:E:2593:ARG:HD3	1.82	0.44
1:E:3718:GLU:CD	1:E:3723:MET:HE1	2.43	0.44
1:E:4131:ARG:HG3	1:E:4132:PHE:CD1	2.52	0.44
1:E:4998:LYS:HG3	1:E:5003:HIS:CE1	2.53	0.44
1:G:947:GLU:HA	1:G:950:LEU:HD12	2.00	0.44
1:G:981:GLN:HG3	1:G:1047:LEU:HD21	2.00	0.44
1:G:1078:GLU:HG2	1:G:1080:SER:H	1.82	0.44
1:G:3934:TYR:CE1	1:G:3999:MET:HB2	2.53	0.44
1:J:179:TYR:H	1:J:195:PHE:HA	1.83	0.44
1:J:981:GLN:HG3	1:J:1047:LEU:HD21	2.00	0.44
1:J:1245:PHE:CD2	1:J:1290:ARG:HG2	2.52	0.44
1:J:1455:PRO:HG3	1:J:1549:PHE:HE1	1.82	0.44
1:J:1743:ARG:O	1:J:1964:ARG:NH1	2.51	0.44
1:J:2318:TYR:HA	1:J:2395:PRO:HA	1.99	0.44
1:J:2742:THR:HG21	1:J:2815:ALA:N	2.33	0.44
1:J:3367:LYS:O	1:J:3371:LYS:HG2	2.17	0.44
1:J:3994:HIS:O	1:J:3998:HIS:ND1	2.51	0.44
1:B:668:VAL:O	1:B:741:GLU:N	2.51	0.44
1:B:1723:ALA:O	1:B:1727:ARG:HD3	2.18	0.44
1:B:1743:ARG:O	1:B:1964:ARG:NH1	2.51	0.44
1:B:2107:GLN:HA	1:B:3694:LYS:NZ	2.33	0.44
1:B:2624:ARG:HD2	1:B:2910:THR:CG2	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2928:LYS:HB3	1:B:2932:MET:HE1	2.00	0.44
1:B:2965:ARG:HA	1:B:2968:ASP:OD2	2.18	0.44
1:B:3037:GLU:HB2	1:B:3085:PRO:HG2	1.99	0.44
1:B:3042:LEU:HA	1:B:3045:LYS:HD2	2.00	0.44
1:B:3127:GLN:HB2	1:B:3130:THR:HG22	2.00	0.44
1:B:3326:ASN:ND2	1:B:3335:MET:HE1	2.33	0.44
1:B:3730:ALA:O	1:B:3734:HIS:CD2	2.71	0.44
1:B:3934:TYR:CE1	1:B:3999:MET:HB2	2.53	0.44
1:B:4651:THR:HG1	1:B:4803:HIS:CD2	2.35	0.44
1:E:179:TYR:H	1:E:195:PHE:HA	1.83	0.44
1:E:1291:LEU:HB3	1:E:1595:LEU:HD11	2.00	0.44
1:E:1741:GLU:O	1:E:1745:ILE:HG13	2.17	0.44
1:E:2563:THR:HG22	1:E:2606:CYS:HA	2.00	0.44
1:E:2610:LEU:O	1:E:2614:ILE:HG12	2.18	0.44
1:E:3127:GLN:HB2	1:E:3130:THR:HG22	2.00	0.44
1:E:3206:LEU:HD11	1:E:3276:MET:SD	2.58	0.44
1:E:4931:ILE:O	1:E:4935:LEU:HG	2.18	0.44
1:G:246:TYR:HA	1:G:374:LYS:O	2.18	0.44
1:G:548:VAL:HA	1:G:551:LEU:HG	2.00	0.44
1:G:678:GLN:HA	2:H:40:ARG:NH2	2.32	0.44
1:G:871:ARG:NH1	1:G:922:LEU:HD22	2.32	0.44
1:G:1041:GLN:O	1:G:1045:THR:HG23	2.17	0.44
1:G:1518:CYS:HB3	1:G:1527:MET:HE1	2.00	0.44
1:G:1561:VAL:HG23	1:G:1562:ILE:HG12	1.99	0.44
1:G:1698:LEU:HG	1:G:1712:TYR:CE1	2.53	0.44
1:G:2215:LEU:HD11	1:G:2229:VAL:HG22	1.99	0.44
1:G:2563:THR:HG22	1:G:2606:CYS:HA	2.00	0.44
1:G:2788:HIS:CD2	1:G:2789:PRO:HD2	2.52	0.44
1:G:2928:LYS:HB3	1:G:2932:MET:HE1	2.00	0.44
1:G:3719:ASP:HB2	1:G:3722:TYR:HB3	1.98	0.44
1:J:217:GLY:O	1:J:261:ARG:NH1	2.51	0.44
1:J:414:PHE:CD1	1:J:441:VAL:HG21	2.53	0.44
1:J:1291:LEU:HB3	1:J:1595:LEU:HD11	2.00	0.44
1:J:2107:GLN:HA	1:J:3694:LYS:NZ	2.33	0.44
1:J:3021:PRO:HD3	1:J:3036:LYS:NZ	2.32	0.44
1:J:3042:LEU:HA	1:J:3045:LYS:HD2	2.00	0.44
1:J:3730:ALA:O	1:J:3734:HIS:CD2	2.71	0.44
1:J:4148:THR:O	1:J:4152:GLU:HG3	2.18	0.44
1:J:4998:LYS:HG3	1:J:5003:HIS:CE1	2.53	0.44
1:B:1245:PHE:CD2	1:B:1290:ARG:HG2	2.52	0.43
1:B:2355:ARG:HD3	1:B:2358:ILE:HD11	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2773:ASN:HA	1:G:1508:ARG:HH21	1.83	0.43
1:B:2788:HIS:CD2	1:B:2789:PRO:HD2	2.52	0.43
1:B:2827:ARG:NE	1:B:2935:TYR:OH	2.28	0.43
1:B:3445:TRP:HD1	1:B:3451:PHE:CE2	2.35	0.43
1:B:3752:SER:O	1:B:3756:LYS:HG3	2.17	0.43
1:B:4948:GLU:HA	1:B:4951:LYS:NZ	2.32	0.43
1:E:248:GLU:HB3	1:E:373:LYS:N	2.33	0.43
1:E:266:ARG:NH2	1:E:269:TRP:O	2.51	0.43
1:E:659:TYR:HB2	1:E:1017:ARG:NH2	2.32	0.43
1:E:1161:ILE:HD11	1:E:1177:THR:HG22	2.00	0.43
1:E:2230:THR:O	1:E:2234:ARG:HG3	2.18	0.43
1:E:2318:TYR:HA	1:E:2395:PRO:HA	1.99	0.43
1:E:3999:MET:HG3	1:E:4003:LEU:HG	2.00	0.43
1:E:4581:LYS:HG2	1:E:4632:LEU:HB2	2.00	0.43
1:E:4948:GLU:HA	1:E:4951:LYS:NZ	2.32	0.43
1:G:996:TRP:O	1:G:1000:ARG:HG2	2.18	0.43
1:G:1727:ARG:HH21	1:G:1775:HIS:HA	1.82	0.43
1:G:2355:ARG:HD3	1:G:2358:ILE:HD11	1.99	0.43
1:G:2950:SER:O	1:G:2954:ARG:HG3	2.18	0.43
1:G:3384:LYS:HG2	1:G:3386:GLU:H	1.82	0.43
1:J:266:ARG:NH2	1:J:269:TRP:O	2.51	0.43
1:J:1561:VAL:HG23	1:J:1562:ILE:HG12	1.99	0.43
1:J:1691:GLN:NE2	1:J:1803:PRO:HD2	2.33	0.43
1:J:1698:LEU:HG	1:J:1712:TYR:CE1	2.53	0.43
1:J:2230:THR:O	1:J:2234:ARG:HG3	2.18	0.43
1:J:2755:ILE:HG22	1:J:2810:LYS:NZ	2.33	0.43
1:J:3967:GLU:CA	1:J:3970:GLN:HG2	2.39	0.43
1:J:4559:PHE:CE1	1:J:4661:TYR:HB2	2.53	0.43
3:F:52:THR:OG1	3:F:56:SER:HB2	2.18	0.43
1:B:981:GLN:HG3	1:B:1047:LEU:HD21	2.00	0.43
1:B:1623:ARG:HA	1:B:1623:ARG:HH11	1.83	0.43
1:B:4998:LYS:HG3	1:B:5003:HIS:CE1	2.53	0.43
1:E:1116:GLY:HA3	1:E:1132:TRP:HB3	2.00	0.43
1:E:1508:ARG:HH21	1:J:2773:ASN:HA	1.82	0.43
1:E:1723:ALA:O	1:E:1727:ARG:HD3	2.18	0.43
1:E:2867:LEU:HG	1:E:2868:SER:H	1.83	0.43
1:E:3181:THR:O	1:E:3185:LYS:HG2	2.18	0.43
1:E:3367:LYS:O	1:E:3371:LYS:HG2	2.17	0.43
1:E:4000:MET:HE1	1:E:4057:MET:O	2.19	0.43
1:E:4727:LYS:HD3	1:E:4728:HIS:CE1	2.53	0.43
1:G:113:HIS:NE2	1:G:402:ARG:HB3	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1455:PRO:HG3	1:G:1549:PHE:HE1	1.82	0.43
1:G:2107:GLN:HA	1:G:3694:LYS:NZ	2.33	0.43
1:G:2495:VAL:HG22	1:G:2497:ASP:H	1.83	0.43
1:G:3206:LEU:HD11	1:G:3276:MET:SD	2.58	0.43
1:G:4559:PHE:CE1	1:G:4661:TYR:HB2	2.53	0.43
1:J:210:GLU:HG3	1:J:213:TYR:HB2	1.99	0.43
1:J:1037:ASP:O	1:J:1041:GLN:HG2	2.17	0.43
1:J:1646:ARG:NH1	1:J:1648:MET:SD	2.90	0.43
1:J:2867:LEU:HG	1:J:2868:SER:H	1.83	0.43
1:J:3180:ASN:OD1	1:J:3181:THR:N	2.51	0.43
1:J:3192:GLU:OE1	1:J:3196:ARG:NH2	2.51	0.43
1:J:4131:ARG:HG3	1:J:4132:PHE:CD1	2.52	0.43
3:F:39:GLN:HE21	3:F:92:VAL:HB	1.84	0.43
3:K:52:THR:OG1	3:K:56:SER:HB2	2.18	0.43
1:B:217:GLY:O	1:B:261:ARG:NH1	2.51	0.43
1:B:1161:ILE:HD11	1:B:1177:THR:HG22	2.00	0.43
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.51	0.43
1:B:2572:THR:O	1:B:2572:THR:HG22	2.19	0.43
1:B:2593:ARG:H	1:B:2593:ARG:HD3	1.82	0.43
1:B:3180:ASN:OD1	1:B:3181:THR:N	2.51	0.43
1:B:3337:ARG:HG2	1:B:3341:PHE:CD1	2.54	0.43
1:B:3672:ARG:NH1	1:B:3676:ASP:OD2	2.51	0.43
1:B:3724:ALA:O	1:B:3728:ILE:HG13	2.17	0.43
1:B:3994:HIS:O	1:B:3998:HIS:ND1	2.51	0.43
1:B:4148:THR:O	1:B:4152:GLU:HG3	2.18	0.43
1:E:414:PHE:CD1	1:E:441:VAL:HG21	2.53	0.43
1:E:516:LYS:HE2	1:E:516:LYS:HB2	1.82	0.43
1:E:880:GLU:O	1:E:884:LEU:HG	2.17	0.43
1:E:1743:ARG:O	1:E:1964:ARG:NH1	2.51	0.43
1:E:2742:THR:HG21	1:E:2815:ALA:N	2.33	0.43
1:E:3104:GLU:O	1:E:3107:VAL:HG22	2.18	0.43
1:E:3180:ASN:OD1	1:E:3181:THR:N	2.51	0.43
1:E:3955:MET:CE	1:E:4015:GLU:HG2	2.48	0.43
1:E:4247:ILE:O	1:E:4251:ILE:HG13	2.18	0.43
1:G:228:ASP:O	1:G:250:GLY:N	2.51	0.43
1:G:1098:GLY:O	1:G:1127:HIS:HB2	2.19	0.43
1:G:1270:LEU:O	1:G:1563:GLN:HA	2.18	0.43
1:G:2230:THR:HG22	1:G:2234:ARG:HH11	1.82	0.43
1:G:2263:ILE:HA	1:G:2330:ARG:HH12	1.83	0.43
1:G:2420:HIS:HA	1:G:2423:MET:HE2	2.01	0.43
1:G:2447:LYS:O	1:G:2451:LEU:HG	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3073:ARG:HA	1:G:3146:HIS:CE1	2.54	0.43
1:G:3263:TYR:HE1	1:G:3326:ASN:ND2	2.16	0.43
1:G:3718:GLU:CD	1:G:3723:MET:HE1	2.43	0.43
1:G:3765:TYR:CE2	1:G:3769:ARG:HD3	2.54	0.43
1:G:4931:ILE:O	1:G:4935:LEU:HG	2.18	0.43
1:J:1727:ARG:HH21	1:J:1775:HIS:HA	1.82	0.43
1:J:2230:THR:HG22	1:J:2234:ARG:HH11	1.83	0.43
1:J:3934:TYR:CE1	1:J:3999:MET:HB2	2.52	0.43
1:J:4727:LYS:HD3	1:J:4728:HIS:CE1	2.53	0.43
1:B:2420:HIS:HA	1:B:2423:MET:HE2	2.00	0.43
1:B:2755:ILE:HG22	1:B:2810:LYS:NZ	2.33	0.43
1:B:3073:ARG:HA	1:B:3146:HIS:CE1	2.54	0.43
1:B:3206:LEU:HD11	1:B:3276:MET:SD	2.58	0.43
1:B:3320:LEU:HD22	1:B:3357:HIS:HB3	2.00	0.43
1:E:113:HIS:NE2	1:E:402:ARG:HB3	2.34	0.43
1:E:1270:LEU:O	1:E:1563:GLN:HA	2.18	0.43
1:E:1698:LEU:HG	1:E:1712:TYR:CE1	2.53	0.43
1:E:2965:ARG:HA	1:E:2968:ASP:OD2	2.18	0.43
1:E:3037:GLU:HB2	1:E:3085:PRO:HG2	1.99	0.43
1:E:3042:LEU:HA	1:E:3045:LYS:HD2	2.00	0.43
1:E:4996:ILE:HD13	6:E:5103:CFF:C8	2.49	0.43
1:G:700:GLU:N	1:G:705:ASN:OD1	2.52	0.43
1:G:1161:ILE:HD11	1:G:1177:THR:HG22	2.00	0.43
1:G:1857:GLU:O	1:G:1861:GLN:HG3	2.18	0.43
1:G:3337:ARG:HG2	1:G:3341:PHE:CD1	2.54	0.43
1:G:3724:ALA:O	1:G:3728:ILE:HG13	2.17	0.43
1:G:3884:LEU:O	1:G:3888:LEU:HG	2.18	0.43
1:G:4148:THR:O	1:G:4152:GLU:HG3	2.18	0.43
1:G:4727:LYS:HD3	1:G:4728:HIS:CE1	2.53	0.43
1:G:4823:LEU:O	1:G:4827:LEU:HG	2.19	0.43
1:J:488:LEU:HD11	1:J:540:PHE:CZ	2.54	0.43
1:J:1098:GLY:O	1:J:1127:HIS:HB2	2.19	0.43
1:J:1518:CYS:HB3	1:J:1527:MET:HE1	2.00	0.43
1:J:2420:HIS:HA	1:J:2423:MET:HE2	2.01	0.43
1:J:2447:LYS:O	1:J:2451:LEU:HG	2.19	0.43
1:J:2558:VAL:O	1:J:2562:ILE:HG12	2.18	0.43
1:J:2691:TYR:HA	1:J:2696:TYR:CE1	2.54	0.43
1:J:2751:LEU:HD12	1:J:2823:ILE:HD11	1.99	0.43
1:J:3752:SER:HB2	1:J:3755:GLU:HG3	1.99	0.43
3:C:52:THR:OG1	3:C:56:SER:HB2	2.18	0.43
1:B:468:LEU:O	1:B:472:ARG:HG2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:548:VAL:HA	1:B:551:LEU:HG	2.00	0.43
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.58	0.43
1:B:3104:GLU:O	1:B:3107:VAL:HG22	2.18	0.43
1:B:3568:SER:O	1:B:3571:TRP:NE1	2.51	0.43
1:E:1101:ARG:HB3	1:E:1123:VAL:HG21	2.01	0.43
1:E:2558:VAL:O	1:E:2562:ILE:HG12	2.18	0.43
1:E:3958:ALA:HA	1:E:3961:VAL:HG12	2.01	0.43
1:E:4148:THR:O	1:E:4152:GLU:HG3	2.18	0.43
1:G:100:THR:HG21	1:G:162:LYS:HD3	2.00	0.43
1:G:179:TYR:H	1:G:195:PHE:HA	1.83	0.43
1:G:2819:TRP:NE1	1:G:2881:ASN:OD1	2.36	0.43
1:G:4998:LYS:HG3	1:G:5003:HIS:CE1	2.53	0.43
1:J:985:VAL:HG11	1:J:1040:CYS:SG	2.58	0.43
1:J:996:TRP:O	1:J:1000:ARG:HG2	2.18	0.43
1:J:1101:ARG:HB3	1:J:1123:VAL:HG21	2.01	0.43
1:J:1161:ILE:HD11	1:J:1177:THR:HG22	2.00	0.43
1:J:3086:GLU:HA	1:J:3089:LYS:HE3	2.00	0.43
1:J:3104:GLU:O	1:J:3107:VAL:HG22	2.18	0.43
1:J:4558:ASN:O	1:J:4562:LEU:HG	2.17	0.43
1:J:4931:ILE:O	1:J:4935:LEU:HG	2.18	0.43
1:J:4996:ILE:HD13	6:J:5103:CFF:C8	2.49	0.43
1:B:210:GLU:HG3	1:B:213:TYR:HB2	1.99	0.43
1:B:1116:GLY:HA3	1:B:1132:TRP:HB3	1.99	0.43
1:B:1270:LEU:O	1:B:1563:GLN:HA	2.18	0.43
1:B:2950:SER:O	1:B:2954:ARG:HG3	2.18	0.43
1:B:4000:MET:HE1	1:B:4057:MET:O	2.19	0.43
1:B:4558:ASN:O	1:B:4562:LEU:HG	2.18	0.43
1:B:4677:LEU:HA	1:B:4680:LYS:HZ3	1.84	0.43
1:B:4727:LYS:HD3	1:B:4728:HIS:CE1	2.53	0.43
1:B:4823:LEU:O	1:B:4827:LEU:HG	2.19	0.43
1:E:1037:ASP:O	1:E:1041:GLN:HG2	2.17	0.43
1:E:1105:ALA:O	1:E:1189:LEU:N	2.46	0.43
1:E:2247:GLN:HG3	1:E:2279:SER:HA	1.99	0.43
1:E:2624:ARG:HD2	1:E:2910:THR:CG2	2.48	0.43
1:E:3765:TYR:CE2	1:E:3769:ARG:HD3	2.54	0.43
1:G:277:GLY:N	1:G:316:PHE:O	2.45	0.43
1:G:363:ASP:HB3	1:G:366:ALA:HB3	2.01	0.43
1:G:659:TYR:HB2	1:G:1017:ARG:NH2	2.32	0.43
1:G:870:ILE:HD12	1:G:1051:TYR:CE1	2.54	0.43
1:G:1743:ARG:O	1:G:1964:ARG:NH1	2.51	0.43
1:G:2212:VAL:HG22	1:G:2256:TYR:OH	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3514:LEU:HD11	1:G:3606:LEU:HB2	2.00	0.43
1:G:3955:MET:CE	1:G:4015:GLU:HG2	2.48	0.43
1:G:4128:PHE:HA	1:G:4131:ARG:NE	2.33	0.43
1:G:4207:MET:HE3	1:G:4210:VAL:HG23	2.01	0.43
1:G:4247:ILE:O	1:G:4251:ILE:HG13	2.18	0.43
1:G:4996:ILE:HD13	6:G:5103:CFF:C8	2.49	0.43
1:J:668:VAL:O	1:J:741:GLU:N	2.51	0.43
1:J:1078:GLU:HG2	1:J:1080:SER:H	1.82	0.43
1:J:1775:HIS:CE1	1:J:1851:MET:HE3	2.53	0.43
1:J:3672:ARG:NH1	1:J:3676:ASP:OD2	2.51	0.43
1:J:4000:MET:HE1	1:J:4057:MET:O	2.19	0.43
1:J:4207:MET:HE3	1:J:4210:VAL:HG23	2.01	0.43
2:I:2:VAL:HG21	2:I:61:GLU:OE2	2.19	0.43
1:B:179:TYR:H	1:B:195:PHE:HA	1.83	0.43
1:B:627:PRO:HG3	2:A:89:GLY:H	1.84	0.43
1:B:1698:LEU:HG	1:B:1712:TYR:CE1	2.53	0.43
1:B:2210:VAL:O	1:B:2214:VAL:HG12	2.19	0.43
1:B:2230:THR:HG22	1:B:2234:ARG:HH11	1.83	0.43
1:B:2469:ILE:HD12	1:B:2472:LEU:HD12	2.01	0.43
1:B:2754:PHE:HE1	1:B:2933:ASN:ND2	2.13	0.43
1:B:3847:PHE:HD1	1:B:3850:GLN:HE21	1.67	0.43
1:B:3874:VAL:HG23	1:B:3875:MET:N	2.34	0.43
1:B:4664:LEU:HD12	1:B:4665:LYS:N	2.34	0.43
1:E:1780:PRO:HG2	2:D:42:ARG:HD3	2.00	0.43
1:E:2230:THR:HG22	1:E:2234:ARG:HH11	1.82	0.43
1:E:2572:THR:O	1:E:2572:THR:HG22	2.19	0.43
1:E:4122:MET:HE3	1:E:4123:ILE:N	2.28	0.43
1:E:4128:PHE:HA	1:E:4131:ARG:NE	2.33	0.43
1:G:217:GLY:O	1:G:261:ARG:NH1	2.51	0.43
1:G:516:LYS:HE2	1:G:516:LYS:HB2	1.82	0.43
1:G:1775:HIS:CE1	1:G:1851:MET:HE3	2.53	0.43
1:G:2558:VAL:O	1:G:2562:ILE:HG12	2.18	0.43
1:G:2572:THR:O	1:G:2572:THR:HG22	2.19	0.43
1:G:2624:ARG:HD2	1:G:2910:THR:CG2	2.48	0.43
1:G:3127:GLN:HB2	1:G:3130:THR:HG22	2.00	0.43
1:G:4000:MET:HE1	1:G:4057:MET:O	2.19	0.43
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.18	0.43
1:J:468:LEU:O	1:J:472:ARG:HG2	2.19	0.43
1:J:1569:GLN:HB2	1:J:1572:ILE:HD12	2.00	0.43
1:J:1857:GLU:O	1:J:1861:GLN:HG3	2.18	0.43
1:J:2820:GLU:HG3	1:J:2821:TRP:CD1	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:39:GLN:HE21	3:M:92:VAL:HB	1.83	0.43
1:B:870:ILE:HD12	1:B:1051:TYR:CE1	2.54	0.43
1:B:883:ALA:HA	1:B:886:ARG:HH21	1.83	0.43
1:B:1599:MET:SD	1:B:1599:MET:N	2.92	0.43
1:B:1775:HIS:CE1	1:B:1851:MET:HE3	2.53	0.43
1:B:2447:LYS:O	1:B:2451:LEU:HG	2.19	0.43
1:B:3051:ARG:HD2	1:B:3131:TYR:CE2	2.54	0.43
1:B:3758:MET:HE3	1:B:4719:PHE:CE1	2.54	0.43
1:E:1839:VAL:O	1:E:1843:LYS:HG3	2.19	0.43
1:E:2967:MET:HE3	1:E:3045:LYS:HE3	2.01	0.43
1:E:3051:ARG:HD2	1:E:3131:TYR:CE2	2.54	0.43
1:E:3086:GLU:HA	1:E:3089:LYS:HE3	2.00	0.43
1:E:3321:ARG:HA	1:E:3324:VAL:HG12	1.99	0.43
1:E:3514:LEU:HD21	1:E:3606:LEU:HD22	2.00	0.43
1:E:3568:SER:O	1:E:3571:TRP:NE1	2.51	0.43
1:E:3961:VAL:O	1:E:3965:LEU:HG	2.18	0.43
1:E:4580:TYR:CE2	1:E:4807:PHE:HE1	2.36	0.43
1:G:118:LEU:HA	1:G:137:LEU:HD23	1.99	0.43
1:G:322:LYS:HZ2	1:G:354:GLY:HA2	1.84	0.43
1:G:827:LYS:HE2	1:G:827:LYS:HB2	1.83	0.43
1:G:1078:GLU:OE1	1:G:1235:THR:OG1	2.34	0.43
1:G:1839:VAL:O	1:G:1843:LYS:HG3	2.19	0.43
1:G:2957:PHE:HE1	1:G:2961:GLN:HE21	1.67	0.43
1:G:4045:VAL:O	1:G:4049:VAL:HG13	2.19	0.43
1:G:4573:ILE:HG12	1:G:4646:LEU:HB3	2.00	0.43
1:G:4664:LEU:HD12	1:G:4665:LYS:N	2.34	0.43
1:J:100:THR:HG21	1:J:162:LYS:HD3	2.00	0.43
1:J:113:HIS:NE2	1:J:402:ARG:HB3	2.34	0.43
1:J:257:ARG:O	1:J:284:HIS:NE2	2.34	0.43
1:J:1007:TYR:CD1	1:J:1022:VAL:HG13	2.54	0.43
1:J:1116:GLY:HA3	1:J:1132:TRP:HB3	2.00	0.43
1:J:1839:VAL:O	1:J:1843:LYS:HG3	2.19	0.43
1:J:2013:LYS:NZ	1:J:3664:THR:OG1	2.38	0.43
1:J:2624:ARG:HD2	1:J:2910:THR:CG2	2.48	0.43
1:J:2965:ARG:HA	1:J:2968:ASP:OD2	2.18	0.43
1:J:3765:TYR:CE2	1:J:3769:ARG:HD3	2.54	0.43
2:A:7:ILE:HG21	2:A:71:ARG:HE	1.84	0.43
3:K:53:SER:C	3:K:55:ASN:H	2.27	0.43
1:B:816:LEU:HB2	1:B:819:GLU:HB2	2.01	0.43
1:B:1691:GLN:NE2	1:B:1803:PRO:HD2	2.33	0.43
1:B:1857:GLU:O	1:B:1861:GLN:HG3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2748:PRO:HB2	1:B:2750:LYS:HG2	2.01	0.43
1:B:2957:PHE:HE1	1:B:2961:GLN:HE21	1.67	0.43
1:B:4088:ILE:HD12	1:B:4093:PHE:HD2	1.84	0.43
1:E:883:ALA:HA	1:E:886:ARG:HH21	1.83	0.43
1:E:981:GLN:HG3	1:E:1047:LEU:HD21	2.00	0.43
1:E:1098:GLY:O	1:E:1127:HIS:HB2	2.18	0.43
1:E:1623:ARG:HA	1:E:1623:ARG:HH11	1.82	0.43
1:E:2767:ALA:HB2	1:E:2791:LEU:HD21	2.01	0.43
1:E:2961:GLN:HA	1:E:2964:LEU:HD12	2.01	0.43
1:E:3233:PRO:HB2	1:E:3238:GLU:OE2	2.19	0.43
1:E:3758:MET:HE3	1:E:4719:PHE:CE1	2.54	0.43
1:E:3994:HIS:O	1:E:3998:HIS:ND1	2.51	0.43
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.17	0.43
1:G:148:TRP:HA	1:G:173:SER:HA	2.00	0.43
1:G:488:LEU:HD11	1:G:540:PHE:CZ	2.54	0.43
1:G:2593:ARG:H	1:G:2593:ARG:HD3	1.82	0.43
1:G:3086:GLU:HA	1:G:3089:LYS:HE3	2.00	0.43
1:J:548:VAL:HA	1:J:551:LEU:HG	2.00	0.43
1:J:634:GLN:HG3	2:I:34:LYS:NZ	2.34	0.43
1:J:1105:ALA:O	1:J:1189:LEU:N	2.46	0.43
1:J:2215:LEU:HD11	1:J:2229:VAL:HG22	1.99	0.43
1:J:2506:LEU:HD12	1:J:2510:TYR:HB2	1.99	0.43
1:J:2515:GLN:O	1:J:2519:LEU:HG	2.19	0.43
1:J:3718:GLU:CD	1:J:3723:MET:HE1	2.43	0.43
1:J:4247:ILE:O	1:J:4251:ILE:HG13	2.18	0.43
1:J:4664:LEU:HD12	1:J:4665:LYS:N	2.34	0.43
1:J:4823:LEU:O	1:J:4827:LEU:HG	2.19	0.43
2:A:2:VAL:HG21	2:A:61:GLU:OE2	2.19	0.43
2:D:7:ILE:HG21	2:D:71:ARG:HE	1.84	0.43
3:C:39:GLN:HE21	3:C:92:VAL:HB	1.84	0.43
1:B:2263:ILE:HA	1:B:2330:ARG:HH12	1.83	0.43
1:B:2292:GLU:OE1	1:B:2292:GLU:N	2.42	0.43
1:B:2515:GLN:O	1:B:2519:LEU:HG	2.19	0.43
1:B:2742:THR:HG21	1:B:2815:ALA:N	2.33	0.43
1:B:2867:LEU:HG	1:B:2868:SER:H	1.83	0.43
1:B:3765:TYR:CE2	1:B:3769:ARG:HD3	2.54	0.43
1:B:4247:ILE:O	1:B:4251:ILE:HG13	2.18	0.43
1:B:4996:ILE:HD13	6:B:5103:CFF:C8	2.49	0.43
1:E:488:LEU:HD11	1:E:540:PHE:CZ	2.54	0.43
1:E:668:VAL:O	1:E:741:GLU:N	2.51	0.43
1:E:2716:ASP:OD1	1:E:2716:ASP:N	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2827:ARG:NE	1:E:2935:TYR:OH	2.28	0.43
1:E:3439:GLY:O	1:E:3443:ILE:HG23	2.18	0.43
1:E:3514:LEU:HD11	1:E:3606:LEU:HB2	2.00	0.43
1:G:246:TYR:HB3	1:G:374:LYS:H	1.84	0.43
1:G:2318:TYR:HA	1:G:2395:PRO:HA	1.99	0.43
1:G:2469:ILE:HD12	1:G:2472:LEU:HD12	2.01	0.43
1:G:3672:ARG:NH1	1:G:3676:ASP:OD2	2.51	0.43
1:J:283:ARG:HG2	1:J:284:HIS:N	2.33	0.43
1:J:1615:VAL:HG22	1:J:1630:CYS:SG	2.59	0.43
1:J:1658:ASP:OD1	1:J:1658:ASP:N	2.51	0.43
1:J:2495:VAL:HG22	1:J:2497:ASP:H	1.83	0.43
1:J:2748:PRO:HB2	1:J:2750:LYS:HG2	2.01	0.43
1:J:2950:SER:O	1:J:2954:ARG:HG3	2.18	0.43
1:J:3263:TYR:HE1	1:J:3326:ASN:ND2	2.16	0.43
1:J:3999:MET:HG3	1:J:4003:LEU:HG	2.01	0.43
1:J:4088:ILE:HD12	1:J:4093:PHE:HD2	1.84	0.43
1:J:4573:ILE:HG12	1:J:4646:LEU:HB3	2.00	0.43
1:J:4948:GLU:HA	1:J:4951:LYS:NZ	2.32	0.43
1:B:1098:GLY:O	1:B:1127:HIS:HB2	2.19	0.42
1:B:2212:VAL:HG22	1:B:2256:TYR:OH	2.19	0.42
1:B:2558:VAL:O	1:B:2562:ILE:HG12	2.18	0.42
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	2.01	0.42
1:B:3514:LEU:HD21	1:B:3606:LEU:HD22	2.00	0.42
1:B:4207:MET:HE3	1:B:4210:VAL:HG23	2.01	0.42
1:E:816:LEU:HB2	1:E:819:GLU:HB2	2.01	0.42
1:E:1658:ASP:OD1	1:E:1658:ASP:N	2.51	0.42
1:E:2107:GLN:HA	1:E:3694:LYS:NZ	2.33	0.42
1:E:2263:ILE:HA	1:E:2330:ARG:HH12	1.83	0.42
1:E:2748:PRO:HB2	1:E:2750:LYS:HG2	2.01	0.42
1:E:2754:PHE:HE1	1:E:2933:ASN:ND2	2.13	0.42
1:E:2888:ARG:O	1:E:2892:GLN:HG2	2.19	0.42
1:E:3886:ARG:HD2	1:E:3889:GLN:HE21	1.84	0.42
1:E:4823:LEU:O	1:E:4827:LEU:HG	2.19	0.42
1:G:210:GLU:HG3	1:G:213:TYR:HB2	1.99	0.42
1:G:266:ARG:NH2	1:G:269:TRP:O	2.51	0.42
1:G:887:ILE:HD13	1:G:959:TYR:HB3	2.01	0.42
1:G:985:VAL:HG11	1:G:1040:CYS:SG	2.58	0.42
1:G:1000:ARG:NH2	3:M:114:TYR:HA	2.34	0.42
1:G:1101:ARG:HB3	1:G:1123:VAL:HG21	2.01	0.42
1:G:3104:GLU:O	1:G:3107:VAL:HG22	2.18	0.42
1:G:3568:SER:O	1:G:3571:TRP:NE1	2.51	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4088:ILE:HD12	1:G:4093:PHE:HD2	1.84	0.42
1:J:816:LEU:HB2	1:J:819:GLU:HB2	2.01	0.42
1:J:2210:VAL:O	1:J:2214:VAL:HG12	2.19	0.42
1:J:3127:GLN:HB2	1:J:3130:THR:HG22	2.00	0.42
1:J:3568:SER:O	1:J:3571:TRP:NE1	2.51	0.42
1:J:3758:MET:HE3	1:J:4719:PHE:CE1	2.54	0.42
1:J:3870:ASN:O	1:J:3873:LYS:HG2	2.19	0.42
1:J:4088:ILE:O	1:J:4088:ILE:HG13	2.19	0.42
2:H:2:VAL:HG21	2:H:61:GLU:OE2	2.19	0.42
1:B:926:GLY:O	1:B:930:LYS:HG3	2.19	0.42
1:B:996:TRP:O	1:B:1000:ARG:HG2	2.18	0.42
1:B:1224:GLU:OE2	1:B:1228:ILE:HG21	2.19	0.42
1:B:1698:LEU:HG	1:B:1712:TYR:CZ	2.54	0.42
1:B:3181:THR:O	1:B:3185:LYS:HG2	2.18	0.42
1:B:3233:PRO:HB2	1:B:3238:GLU:OE2	2.19	0.42
1:B:3886:ARG:HD2	1:B:3889:GLN:HE21	1.84	0.42
1:E:217:GLY:O	1:E:261:ARG:NH1	2.51	0.42
1:E:468:LEU:O	1:E:472:ARG:HG2	2.19	0.42
1:E:985:VAL:HG11	1:E:1040:CYS:SG	2.58	0.42
1:E:1224:GLU:OE2	1:E:1228:ILE:HG21	2.19	0.42
1:E:1698:LEU:HG	1:E:1712:TYR:CZ	2.54	0.42
1:E:1775:HIS:CE1	1:E:1851:MET:HE3	2.53	0.42
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.19	0.42
1:E:2212:VAL:HG22	1:E:2256:TYR:OH	2.19	0.42
1:E:2447:LYS:O	1:E:2451:LEU:HG	2.19	0.42
1:E:2770:LYS:HD3	1:E:2786:LYS:HE3	2.02	0.42
1:E:2950:SER:O	1:E:2954:ARG:HG3	2.18	0.42
1:E:3073:ARG:HA	1:E:3146:HIS:CE1	2.54	0.42
1:E:3842:LEU:HA	1:E:3874:VAL:O	2.20	0.42
1:E:4088:ILE:O	1:E:4088:ILE:HG13	2.19	0.42
1:E:4541:TRP:O	1:E:4544:LEU:HG	2.19	0.42
1:G:64:ILE:HG23	1:G:402:ARG:HH21	1.84	0.42
1:G:468:LEU:O	1:G:472:ARG:HG2	2.19	0.42
1:G:668:VAL:O	1:G:741:GLU:N	2.51	0.42
1:G:926:GLY:O	1:G:930:LYS:HG3	2.19	0.42
1:G:1569:GLN:HB2	1:G:1572:ILE:HD12	2.00	0.42
1:G:1698:LEU:HG	1:G:1712:TYR:CZ	2.54	0.42
1:G:2965:ARG:HA	1:G:2968:ASP:OD2	2.18	0.42
1:G:3528:THR:OG1	1:G:3561:GLY:O	2.36	0.42
1:G:3847:PHE:HD1	1:G:3850:GLN:HE21	1.67	0.42
1:J:700:GLU:N	1:J:705:ASN:OD1	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2212:VAL:HG22	1:J:2256:TYR:OH	2.19	0.42
1:J:2572:THR:O	1:J:2572:THR:HG22	2.19	0.42
1:J:2819:TRP:NE1	1:J:2881:ASN:OD1	2.36	0.42
1:J:2967:MET:HE3	1:J:3045:LYS:HE3	2.01	0.42
1:J:3530:GLN:NE2	1:J:3531:ASP:OD1	2.52	0.42
1:J:3958:ALA:HA	1:J:3961:VAL:HG12	2.01	0.42
1:J:4045:VAL:O	1:J:4049:VAL:HG13	2.19	0.42
2:D:2:VAL:HG21	2:D:61:GLU:OE2	2.19	0.42
3:F:35:GLY:HA2	3:F:50:THR:HG23	2.02	0.42
1:B:148:TRP:HA	1:B:173:SER:HA	2.00	0.42
1:B:266:ARG:NH2	1:B:269:TRP:O	2.51	0.42
1:B:283:ARG:HG2	1:B:284:HIS:N	2.33	0.42
1:B:488:LEU:HD11	1:B:540:PHE:CZ	2.54	0.42
1:B:700:GLU:N	1:B:705:ASN:OD1	2.52	0.42
1:B:2134:LEU:O	1:B:2138:LEU:HG	2.19	0.42
1:B:2208:MET:O	1:B:2212:VAL:HG23	2.20	0.42
1:B:2767:ALA:HB2	1:B:2791:LEU:HD21	2.01	0.42
1:B:3842:LEU:HA	1:B:3874:VAL:O	2.20	0.42
1:B:3958:ALA:HA	1:B:3961:VAL:HG12	2.01	0.42
1:B:4045:VAL:O	1:B:4049:VAL:HG13	2.19	0.42
1:E:700:GLU:N	1:E:705:ASN:OD1	2.52	0.42
1:E:1599:MET:SD	1:E:1599:MET:N	2.92	0.42
1:E:2001:PRO:O	1:E:2005:GLN:HG3	2.20	0.42
1:E:4664:LEU:HD12	1:E:4665:LYS:N	2.34	0.42
1:G:1007:TYR:CD1	1:G:1022:VAL:HG13	2.54	0.42
1:G:1599:MET:SD	1:G:1599:MET:N	2.92	0.42
1:G:2210:VAL:O	1:G:2214:VAL:HG12	2.19	0.42
1:G:2742:THR:HG21	1:G:2815:ALA:N	2.33	0.42
1:G:2754:PHE:HE1	1:G:2933:ASN:ND2	2.13	0.42
1:J:149:THR:N	1:J:172:VAL:O	2.29	0.42
1:J:151:HIS:NE2	1:J:172:VAL:HB	2.35	0.42
1:J:870:ILE:HD12	1:J:1051:TYR:CE1	2.54	0.42
1:J:887:ILE:HD13	1:J:959:TYR:HB3	2.01	0.42
1:J:1224:GLU:OE2	1:J:1228:ILE:HG21	2.19	0.42
1:J:1691:GLN:O	1:J:1695:LEU:HG	2.20	0.42
1:B:2770:LYS:HD3	1:B:2786:LYS:HE3	2.01	0.42
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.19	0.42
1:B:3530:GLN:NE2	1:B:3531:ASP:OD1	2.53	0.42
1:B:3999:MET:HG3	1:B:4003:LEU:HG	2.00	0.42
1:B:4088:ILE:O	1:B:4088:ILE:HG13	2.19	0.42
1:E:870:ILE:HD12	1:E:1051:TYR:CE1	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1518:CYS:HB3	1:E:1527:MET:HE1	2.00	0.42
1:E:2420:HIS:HA	1:E:2423:MET:HE2	2.01	0.42
1:E:2755:ILE:HG22	1:E:2810:LYS:NZ	2.33	0.42
1:E:3021:PRO:HD3	1:E:3036:LYS:NZ	2.32	0.42
1:E:3337:ARG:HG2	1:E:3341:PHE:CD1	2.54	0.42
1:E:3528:THR:OG1	1:E:3561:GLY:O	2.36	0.42
1:G:783:PHE:HZ	1:G:1615:VAL:HG11	1.84	0.42
1:G:816:LEU:HB2	1:G:819:GLU:HB2	2.01	0.42
1:G:1087:ARG:HB3	1:G:1223:PHE:HD1	1.83	0.42
1:G:1224:GLU:OE2	1:G:1228:ILE:HG21	2.19	0.42
1:G:1615:VAL:HG22	1:G:1630:CYS:SG	2.59	0.42
1:G:2001:PRO:O	1:G:2005:GLN:HG3	2.20	0.42
1:G:2691:TYR:HA	1:G:2696:TYR:CE1	2.54	0.42
1:G:2767:ALA:HB2	1:G:2791:LEU:HD21	2.01	0.42
1:G:3007:ASN:HA	1:G:3070:ILE:HD11	2.02	0.42
1:G:3051:ARG:HD2	1:G:3131:TYR:CE2	2.54	0.42
1:G:3233:PRO:HB2	1:G:3238:GLU:OE2	2.19	0.42
1:G:3886:ARG:HD2	1:G:3889:GLN:HE21	1.84	0.42
1:G:3958:ALA:HA	1:G:3961:VAL:HG12	2.01	0.42
1:G:3994:HIS:O	1:G:3998:HIS:ND1	2.51	0.42
1:G:4651:THR:HG1	1:G:4803:HIS:CD2	2.36	0.42
1:G:4960:ILE:HB	1:G:4983:HIS:HB3	2.02	0.42
1:J:2961:GLN:HA	1:J:2964:LEU:HD12	2.01	0.42
1:J:4960:ILE:HB	1:J:4983:HIS:HB3	2.02	0.42
2:H:7:ILE:HG21	2:H:71:ARG:HE	1.84	0.42
3:K:39:GLN:HE21	3:K:92:VAL:HB	1.84	0.42
3:M:51:ILE:HG13	3:M:57:ILE:HG12	2.01	0.42
1:B:113:HIS:NE2	1:B:402:ARG:HB3	2.33	0.42
1:B:196:MET:HA	1:B:196:MET:HE3	2.02	0.42
1:B:1003:GLN:HG3	3:C:1:GLN:HE22	1.84	0.42
1:B:1569:GLN:HB2	1:B:1572:ILE:HD12	2.00	0.42
1:B:1615:VAL:HG22	1:B:1630:CYS:SG	2.59	0.42
1:B:3050:VAL:HG22	1:B:3131:TYR:CE1	2.55	0.42
1:B:3086:GLU:HA	1:B:3089:LYS:HE3	2.00	0.42
1:B:3458:PHE:CZ	1:B:3464:ILE:HG13	2.55	0.42
1:B:3514:LEU:HD11	1:B:3606:LEU:HB2	2.00	0.42
1:B:3944:GLU:O	1:B:3948:LYS:HG3	2.20	0.42
1:E:783:PHE:HZ	1:E:1615:VAL:HG11	1.84	0.42
1:E:800:PHE:CD2	1:E:804:PRO:HG3	2.55	0.42
1:E:926:GLY:O	1:E:930:LYS:HG3	2.19	0.42
1:E:1025:ARG:HG3	1:E:1026:LEU:HD12	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2469:ILE:HD12	1:E:2472:LEU:HD12	2.01	0.42
1:E:2691:TYR:HA	1:E:2696:TYR:CE1	2.54	0.42
1:E:3458:PHE:CZ	1:E:3464:ILE:HG13	2.55	0.42
1:E:4207:MET:HE3	1:E:4210:VAL:HG23	2.01	0.42
1:E:4998:LYS:HB2	1:E:4998:LYS:HE3	1.83	0.42
1:G:151:HIS:NE2	1:G:172:VAL:HB	2.35	0.42
1:G:722:TRP:CZ2	1:G:727:ALA:HB2	2.55	0.42
1:G:2587:TYR:OH	1:G:2629:ASP:OD2	2.27	0.42
1:G:2748:PRO:HB2	1:G:2750:LYS:HG2	2.01	0.42
1:G:3870:ASN:O	1:G:3873:LYS:HG2	2.19	0.42
1:G:4014:LYS:HG2	1:G:4135:PRO:HB3	2.02	0.42
1:G:4130:ASN:HA	1:G:4133:GLN:HG3	2.02	0.42
1:J:228:ASP:O	1:J:250:GLY:N	2.51	0.42
1:J:247:TYR:CB	1:J:374:LYS:HB2	2.47	0.42
1:J:883:ALA:HA	1:J:886:ARG:HH21	1.83	0.42
1:J:2770:LYS:HD3	1:J:2786:LYS:HE3	2.01	0.42
1:J:2888:ARG:O	1:J:2892:GLN:HG2	2.19	0.42
1:J:2957:PHE:HE1	1:J:2961:GLN:HE21	1.67	0.42
1:J:3181:THR:O	1:J:3185:LYS:HG2	2.18	0.42
1:J:3206:LEU:HD12	1:J:3280:TYR:CD2	2.55	0.42
1:J:3233:PRO:HB2	1:J:3238:GLU:OE2	2.19	0.42
1:J:3944:GLU:O	1:J:3948:LYS:HG3	2.20	0.42
1:J:4661:TYR:OH	1:J:4788:SER:HB2	2.19	0.42
2:I:7:ILE:HG21	2:I:71:ARG:HE	1.84	0.42
3:K:35:GLY:HA2	3:K:50:THR:HG23	2.01	0.42
1:B:2691:TYR:HA	1:B:2696:TYR:CE1	2.54	0.42
1:B:2996:LYS:O	1:B:3000:LYS:HG2	2.20	0.42
1:B:4960:ILE:HB	1:B:4983:HIS:HB3	2.02	0.42
1:E:322:LYS:HZ2	1:E:354:GLY:HA2	1.85	0.42
1:E:548:VAL:HA	1:E:551:LEU:HG	2.00	0.42
1:E:1691:GLN:O	1:E:1695:LEU:HG	2.20	0.42
1:E:2598:ALA:O	1:E:2602:VAL:HG23	2.20	0.42
1:E:4021:LYS:HG3	1:E:4142:ASN:ND2	2.35	0.42
1:E:4045:VAL:O	1:E:4049:VAL:HG13	2.19	0.42
1:E:4088:ILE:HD12	1:E:4093:PHE:HD2	1.84	0.42
1:G:1105:ALA:HB2	1:G:1191:VAL:HG11	2.02	0.42
1:G:1782:PHE:O	2:H:82:TYR:OH	2.31	0.42
1:G:2598:ALA:O	1:G:2602:VAL:HG23	2.20	0.42
1:G:2760:GLU:HG2	1:G:2802:LYS:HE2	2.02	0.42
1:G:2770:LYS:HD3	1:G:2786:LYS:HE3	2.02	0.42
1:G:3445:TRP:HD1	1:G:3451:PHE:CD2	2.38	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3842:LEU:HA	1:G:3874:VAL:O	2.19	0.42
1:J:277:GLY:HA2	1:J:315:CYS:HB2	2.02	0.42
1:J:322:LYS:HZ2	1:J:354:GLY:HA2	1.84	0.42
1:J:1599:MET:SD	1:J:1599:MET:N	2.92	0.42
1:J:2001:PRO:O	1:J:2005:GLN:HG3	2.20	0.42
1:J:3073:ARG:HA	1:J:3146:HIS:CE1	2.54	0.42
1:J:4091:LYS:HD2	1:J:4092:ASP:N	2.35	0.42
1:B:151:HIS:NE2	1:B:172:VAL:HB	2.35	0.42
1:B:1518:CYS:HB3	1:B:1527:MET:HE1	2.00	0.42
1:B:2001:PRO:O	1:B:2005:GLN:HG3	2.20	0.42
1:B:3206:LEU:HD12	1:B:3280:TYR:CD2	2.55	0.42
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.55	0.42
1:E:765:GLN:H	1:E:765:GLN:CD	2.27	0.42
1:E:1569:GLN:HB2	1:E:1572:ILE:HD12	2.00	0.42
1:E:2957:PHE:HE1	1:E:2961:GLN:HE21	1.67	0.42
1:E:4661:TYR:OH	1:E:4788:SER:HB2	2.19	0.42
1:G:904:HIS:HD2	1:G:907:LEU:H	1.67	0.42
1:G:2515:GLN:O	1:G:2519:LEU:HG	2.19	0.42
1:G:3089:LYS:O	1:G:3092:LEU:HG	2.20	0.42
1:G:3874:VAL:HG23	1:G:3875:MET:N	2.34	0.42
1:J:573:GLU:CD	1:J:573:GLU:H	2.28	0.42
1:J:1270:LEU:O	1:J:1563:GLN:HA	2.18	0.42
1:J:2469:ILE:HD12	1:J:2472:LEU:HD12	2.01	0.42
1:J:2598:ALA:O	1:J:2602:VAL:HG23	2.20	0.42
1:J:2767:ALA:HB2	1:J:2791:LEU:HD21	2.02	0.42
1:J:3337:ARG:HG2	1:J:3341:PHE:CD1	2.54	0.42
2:A:15:PHE:HE1	2:A:67:SER:HB3	1.85	0.42
3:F:53:SER:C	3:F:55:ASN:H	2.27	0.42
1:B:1105:ALA:O	1:B:1189:LEU:N	2.46	0.42
1:B:2122:SER:O	1:B:2126:ARG:HG3	2.20	0.42
1:B:3020:THR:HA	1:B:3036:LYS:HE2	2.02	0.42
1:B:3445:TRP:HD1	1:B:3451:PHE:CD2	2.38	0.42
1:B:4021:LYS:HG3	1:B:4142:ASN:ND2	2.35	0.42
1:B:4569:LEU:O	1:B:4573:ILE:HG13	2.20	0.42
1:B:4779:LYS:O	1:B:4783:ILE:HG12	2.20	0.42
1:E:196:MET:HA	1:E:196:MET:HE3	2.02	0.42
1:E:228:ASP:O	1:E:250:GLY:N	2.51	0.42
1:E:573:GLU:CD	1:E:573:GLU:H	2.28	0.42
1:E:1857:GLU:O	1:E:1861:GLN:HG3	2.18	0.42
1:E:2515:GLN:O	1:E:2519:LEU:HG	2.19	0.42
1:E:4118:ASP:HB2	1:E:4123:ILE:CD1	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4569:LEU:O	1:E:4573:ILE:HG13	2.20	0.42
1:E:4939:ALA:O	1:E:4942:GLU:HG3	2.20	0.42
1:G:639:ASN:ND2	1:G:676:THR:OG1	2.53	0.42
1:G:977:LEU:HD12	1:G:1044:ARG:HD3	2.02	0.42
1:G:2863:SER:HB2	1:G:2924:GLN:HB2	2.02	0.42
1:G:2888:ARG:O	1:G:2892:GLN:HG2	2.19	0.42
1:G:2996:LYS:O	1:G:3000:LYS:HG2	2.20	0.42
1:G:3042:LEU:HA	1:G:3045:LYS:HD2	2.00	0.42
1:G:3050:VAL:HG22	1:G:3131:TYR:CE1	2.55	0.42
1:G:3181:THR:O	1:G:3185:LYS:HG2	2.18	0.42
1:G:3359:ILE:HB	1:G:3360:PRO:HD3	2.02	0.42
1:G:3458:PHE:CZ	1:G:3464:ILE:HG13	2.55	0.42
1:G:3514:LEU:HD21	1:G:3606:LEU:HD22	2.00	0.42
1:G:3841:VAL:HG21	1:G:3926:LEU:HA	2.02	0.42
1:G:4541:TRP:O	1:G:4544:LEU:HG	2.19	0.42
1:G:4779:LYS:O	1:G:4783:ILE:HG12	2.20	0.42
1:J:1025:ARG:HG3	1:J:1026:LEU:HD12	2.02	0.42
1:J:1105:ALA:HB2	1:J:1191:VAL:HG11	2.02	0.42
1:J:1450:VAL:HG22	1:J:1552:VAL:HG12	2.01	0.42
1:J:1698:LEU:HG	1:J:1712:TYR:CZ	2.54	0.42
1:J:1784:ALA:HA	2:I:55:VAL:HA	2.01	0.42
1:J:2863:SER:HB2	1:J:2924:GLN:HB2	2.02	0.42
1:J:3354:LEU:HB2	1:J:3415:TYR:CE2	2.55	0.42
1:J:3514:LEU:HD11	1:J:3606:LEU:HB2	2.00	0.42
1:J:3534:MET:O	1:J:3538:THR:HG23	2.20	0.42
1:J:3847:PHE:HD1	1:J:3850:GLN:HE21	1.67	0.42
1:J:4128:PHE:HA	1:J:4131:ARG:NE	2.33	0.42
1:J:4651:THR:HG1	1:J:4803:HIS:CD2	2.37	0.42
1:J:4776:GLN:HA	1:J:4779:LYS:HG2	2.02	0.42
2:D:76:CYS:HB3	2:D:80:VAL:HG23	2.02	0.42
1:B:64:ILE:HG23	1:B:402:ARG:HH21	1.84	0.42
1:B:573:GLU:CD	1:B:573:GLU:H	2.28	0.42
1:B:659:TYR:HB2	1:B:1017:ARG:NH2	2.32	0.42
1:B:894:GLY:H	1:B:904:HIS:H	1.68	0.42
1:B:913:LEU:HD13	3:C:104:TYR:OH	2.20	0.42
1:B:1101:ARG:HB3	1:B:1123:VAL:HG21	2.01	0.42
1:B:1939:MET:HA	1:B:1942:LEU:HD12	2.02	0.42
1:B:2640:PRO:O	1:B:2644:LEU:HD23	2.20	0.42
1:B:2967:MET:HE3	1:B:3045:LYS:HE3	2.01	0.42
1:B:3008:GLN:O	1:B:3012:ASN:ND2	2.53	0.42
1:E:384:MET:SD	1:E:384:MET:N	2.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:954:LYS:HD2	1:E:954:LYS:HA	1.77	0.42
1:E:996:TRP:O	1:E:1000:ARG:HG2	2.18	0.42
1:E:1615:VAL:HG22	1:E:1630:CYS:SG	2.59	0.42
1:E:2210:VAL:O	1:E:2214:VAL:HG12	2.19	0.42
1:E:2863:SER:HB2	1:E:2924:GLN:HB2	2.02	0.42
1:E:3008:GLN:O	1:E:3012:ASN:ND2	2.53	0.42
1:E:3406:TYR:OH	1:E:3455:GLU:OE2	2.28	0.42
1:E:3550:ARG:NH2	1:E:3594:ARG:HH22	2.18	0.42
1:E:3955:MET:HE1	1:E:4015:GLU:HG2	2.02	0.42
1:G:1663:HIS:O	1:G:1667:LEU:HG	2.20	0.42
1:G:3530:GLN:O	1:G:3534:MET:HG2	2.20	0.42
1:G:4091:LYS:HD2	1:G:4092:ASP:N	2.35	0.42
1:G:4939:ALA:O	1:G:4942:GLU:HG3	2.20	0.42
1:J:2212:VAL:HG22	1:J:2256:TYR:CZ	2.55	0.42
1:J:2760:GLU:HG2	1:J:2802:LYS:HE2	2.02	0.42
1:J:3842:LEU:HA	1:J:3874:VAL:O	2.19	0.42
1:J:4014:LYS:HG2	1:J:4135:PRO:HB3	2.02	0.42
1:J:4859:PHE:CE1	1:J:4909:TYR:HB3	2.55	0.42
3:M:52:THR:OG1	3:M:56:SER:HB2	2.19	0.42
1:B:639:ASN:ND2	1:B:676:THR:OG1	2.53	0.42
1:B:722:TRP:CZ2	1:B:727:ALA:HB2	2.55	0.42
1:B:800:PHE:CD2	1:B:804:PRO:HG3	2.55	0.42
1:B:977:LEU:HD12	1:B:1044:ARG:HD3	2.02	0.42
1:B:1007:TYR:CD1	1:B:1022:VAL:HG13	2.54	0.42
1:B:1025:ARG:HG3	1:B:1026:LEU:HD12	2.02	0.42
1:B:1839:VAL:O	1:B:1843:LYS:HG3	2.19	0.42
1:B:3327:LEU:HD11	1:B:3365:LEU:HD11	2.02	0.42
1:B:4091:LYS:HD2	1:B:4092:ASP:N	2.35	0.42
1:E:639:ASN:ND2	1:E:676:THR:OG1	2.53	0.42
1:E:2122:SER:O	1:E:2126:ARG:HG3	2.20	0.42
1:E:2178:MET:O	1:E:2182:ILE:HG12	2.20	0.42
1:E:3847:PHE:HD1	1:E:3850:GLN:HE21	1.67	0.42
1:E:4014:LYS:HG2	1:E:4135:PRO:HB3	2.02	0.42
1:G:1101:ARG:HG2	1:G:1125:ASN:HB2	2.02	0.42
1:G:1691:GLN:NE2	1:G:1803:PRO:HD2	2.33	0.42
1:G:1813:ARG:NH2	1:G:1814:MET:HE2	2.24	0.42
1:G:2961:GLN:HA	1:G:2964:LEU:HD12	2.01	0.42
1:G:3530:GLN:NE2	1:G:3531:ASP:OD1	2.53	0.42
1:G:4021:LYS:HG3	1:G:4142:ASN:ND2	2.34	0.42
1:G:4661:TYR:OH	1:G:4788:SER:HB2	2.19	0.42
1:G:4696:ASP:O	1:G:4700:GLN:HG2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:800:PHE:CD2	1:J:804:PRO:HG3	2.55	0.42
1:J:2886:TRP:HH2	1:J:2902:HIS:CE1	2.38	0.42
1:J:3007:ASN:HA	1:J:3070:ILE:HD11	2.02	0.42
1:J:3051:ARG:HD2	1:J:3131:TYR:CE2	2.54	0.42
1:J:3089:LYS:O	1:J:3092:LEU:HG	2.20	0.42
1:J:3445:TRP:HD1	1:J:3451:PHE:CD2	2.38	0.42
1:J:3886:ARG:HD2	1:J:3889:GLN:HE21	1.84	0.42
1:J:3981:ALA:O	1:J:3986:TRP:NE1	2.49	0.42
2:I:76:CYS:HB3	2:I:80:VAL:HG23	2.02	0.42
1:B:887:ILE:HD13	1:B:959:TYR:HB3	2.01	0.41
1:B:1013:ILE:H	1:B:1013:ILE:HD12	1.85	0.41
1:B:1663:HIS:O	1:B:1667:LEU:HG	2.20	0.41
1:B:2579:VAL:O	1:B:2582:MET:HG2	2.20	0.41
1:B:3157:ILE:HA	1:B:3161:VAL:HB	2.02	0.41
1:B:3550:ARG:NH2	1:B:3594:ARG:HH22	2.18	0.41
1:B:3986:TRP:HZ3	1:B:4044:MET:HE2	1.85	0.41
1:B:4998:LYS:HB2	1:B:4998:LYS:HE3	1.83	0.41
1:E:257:ARG:O	1:E:284:HIS:NE2	2.33	0.41
1:E:894:GLY:HA3	1:E:903:LEU:HD22	2.02	0.41
1:E:1105:ALA:HB2	1:E:1191:VAL:HG11	2.02	0.41
1:E:1939:MET:HA	1:E:1942:LEU:HD12	2.02	0.41
1:E:2648:TYR:CE2	1:E:2706:ILE:HG12	2.55	0.41
1:E:2996:LYS:O	1:E:3000:LYS:HG2	2.20	0.41
1:E:3050:VAL:HG22	1:E:3131:TYR:CE1	2.55	0.41
1:E:3135:ALA:O	1:E:3139:VAL:HG23	2.20	0.41
1:E:3157:ILE:HA	1:E:3161:VAL:HB	2.02	0.41
1:E:3206:LEU:HD12	1:E:3280:TYR:CD2	2.55	0.41
1:E:3354:LEU:HB2	1:E:3415:TYR:CE2	2.55	0.41
1:E:3530:GLN:NE2	1:E:3531:ASP:OD1	2.52	0.41
1:E:3841:VAL:HG21	1:E:3926:LEU:HA	2.02	0.41
1:E:3944:GLU:O	1:E:3948:LYS:HG3	2.20	0.41
1:E:3978:GLN:O	1:E:3982:HIS:ND1	2.53	0.41
1:G:283:ARG:HG2	1:G:284:HIS:N	2.33	0.41
1:G:883:ALA:HA	1:G:886:ARG:HH21	1.83	0.41
1:G:2509:VAL:HG23	1:G:2510:TYR:N	2.36	0.41
1:G:2640:PRO:O	1:G:2644:LEU:HD23	2.20	0.41
1:G:2886:TRP:HH2	1:G:2902:HIS:CE1	2.38	0.41
1:G:2978:GLU:OE1	1:G:3053:ARG:NH2	2.53	0.41
1:G:3327:LEU:HD11	1:G:3365:LEU:HD11	2.02	0.41
1:G:3758:MET:HE3	1:G:4719:PHE:CE1	2.54	0.41
1:G:3999:MET:HG3	1:G:4003:LEU:HG	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:659:TYR:HB2	1:J:1017:ARG:NH2	2.32	0.41
1:J:722:TRP:CZ2	1:J:727:ALA:HB2	2.55	0.41
1:J:783:PHE:HB2	1:J:787:VAL:HG21	2.02	0.41
1:J:996:TRP:CE2	3:K:113:GLU:HB3	2.55	0.41
1:J:2648:TYR:CE2	1:J:2706:ILE:HG12	2.55	0.41
1:J:3135:ALA:O	1:J:3139:VAL:HG23	2.20	0.41
1:J:3359:ILE:HB	1:J:3360:PRO:HD3	2.02	0.41
1:J:3514:LEU:HD21	1:J:3606:LEU:HD22	2.01	0.41
1:J:3550:ARG:NH2	1:J:3594:ARG:HH22	2.18	0.41
1:J:4130:ASN:HA	1:J:4133:GLN:HG3	2.02	0.41
1:J:4696:ASP:O	1:J:4700:GLN:HG2	2.20	0.41
1:J:4779:LYS:O	1:J:4783:ILE:HG12	2.20	0.41
3:C:35:GLY:HA2	3:C:50:THR:HG23	2.02	0.41
3:K:5:GLN:O	3:K:22:CYS:HA	2.20	0.41
1:B:874:LEU:HD21	1:B:1051:TYR:OH	2.20	0.41
1:B:893:TYR:H	1:B:962:SER:HB2	1.85	0.41
1:B:1105:ALA:HB2	1:B:1191:VAL:HG11	2.02	0.41
1:B:2716:ASP:OD1	1:B:2716:ASP:N	2.52	0.41
1:B:3007:ASN:HA	1:B:3070:ILE:HD11	2.02	0.41
1:B:3978:GLN:O	1:B:3982:HIS:ND1	2.53	0.41
1:B:4130:ASN:HA	1:B:4133:GLN:HG3	2.02	0.41
1:B:4661:TYR:OH	1:B:4788:SER:HB2	2.19	0.41
1:E:1450:VAL:HG22	1:E:1552:VAL:HG12	2.02	0.41
1:E:2208:MET:O	1:E:2212:VAL:HG23	2.20	0.41
1:E:3020:THR:HA	1:E:3036:LYS:HE2	2.02	0.41
1:E:3530:GLN:O	1:E:3534:MET:HG2	2.20	0.41
1:E:3534:MET:O	1:E:3538:THR:HG23	2.20	0.41
1:E:3986:TRP:HZ3	1:E:4044:MET:HE2	1.85	0.41
1:E:4696:ASP:O	1:E:4700:GLN:HG2	2.20	0.41
1:E:4960:ILE:HB	1:E:4983:HIS:HB3	2.02	0.41
1:E:4991:PHE:HE2	1:E:5010:VAL:HG11	1.85	0.41
1:G:800:PHE:CD2	1:G:804:PRO:HG3	2.55	0.41
1:G:2792:ARG:CZ	1:G:2798:SER:H	2.33	0.41
1:G:2967:MET:HE3	1:G:3045:LYS:HE3	2.01	0.41
1:G:3054:VAL:HG21	1:G:3131:TYR:HB2	2.02	0.41
1:G:3218:VAL:O	1:G:3222:LYS:HG2	2.20	0.41
1:G:3398:PHE:HA	1:G:3401:LEU:HG	2.02	0.41
1:J:2354:VAL:HG11	1:J:2453:ILE:HD12	2.03	0.41
1:J:3050:VAL:HG22	1:J:3131:TYR:CE1	2.55	0.41
1:J:3530:GLN:O	1:J:3534:MET:HG2	2.20	0.41
1:J:3841:VAL:HG21	1:J:3926:LEU:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4021:LYS:HG3	1:J:4142:ASN:ND2	2.35	0.41
1:J:4122:MET:HE3	1:J:4123:ILE:N	2.28	0.41
1:J:4822:THR:O	1:J:4825:THR:OG1	2.22	0.41
3:C:53:SER:C	3:C:55:ASN:H	2.27	0.41
3:F:5:GLN:O	3:F:22:CYS:HA	2.20	0.41
1:B:783:PHE:HB2	1:B:787:VAL:HG21	2.02	0.41
1:B:2333:ASP:HA	1:B:2336:ARG:HG2	2.02	0.41
1:B:2673:HIS:CD2	1:B:2716:ASP:HB2	2.56	0.41
1:B:2886:TRP:HH2	1:B:2902:HIS:CE1	2.38	0.41
1:B:4118:ASP:HB2	1:B:4123:ILE:CD1	2.50	0.41
1:E:634:GLN:HG3	2:D:34:LYS:NZ	2.35	0.41
1:E:893:TYR:H	1:E:962:SER:HB2	1.85	0.41
1:E:1007:TYR:CD1	1:E:1022:VAL:HG13	2.54	0.41
1:E:2579:VAL:O	1:E:2582:MET:HG2	2.20	0.41
1:E:3359:ILE:HB	1:E:3360:PRO:HD3	2.02	0.41
1:E:4776:GLN:HA	1:E:4779:LYS:HG2	2.02	0.41
1:G:853:PRO:HB2	1:G:994:ASN:OD1	2.21	0.41
1:G:883:ALA:O	1:G:887:ILE:HG13	2.21	0.41
1:G:1658:ASP:N	1:G:1658:ASP:OD1	2.51	0.41
1:G:1691:GLN:O	1:G:1695:LEU:HG	2.20	0.41
1:G:3354:LEU:HB2	1:G:3415:TYR:CE2	2.55	0.41
1:G:3955:MET:HE1	1:G:4015:GLU:HG2	2.02	0.41
1:J:247:TYR:CE2	1:J:359:TYR:HA	2.45	0.41
1:J:783:PHE:HZ	1:J:1615:VAL:HG11	1.84	0.41
1:J:874:LEU:HD21	1:J:1051:TYR:OH	2.21	0.41
1:J:926:GLY:O	1:J:930:LYS:HG3	2.19	0.41
1:J:954:LYS:HE3	1:J:955:LEU:O	2.21	0.41
1:J:1076:ARG:CZ	1:J:1079:LYS:HE2	2.50	0.41
1:J:1663:HIS:O	1:J:1667:LEU:HG	2.20	0.41
1:J:2178:MET:O	1:J:2182:ILE:HG12	2.20	0.41
1:J:2268:GLN:HE21	1:J:2268:GLN:HB3	1.73	0.41
1:J:2333:ASP:HA	1:J:2336:ARG:HG2	2.02	0.41
1:J:3008:GLN:O	1:J:3012:ASN:ND2	2.53	0.41
1:J:3945:GLU:O	1:J:3949:ARG:HG3	2.20	0.41
1:J:4939:ALA:O	1:J:4942:GLU:HG3	2.20	0.41
1:B:277:GLY:HA2	1:B:315:CYS:HB2	2.02	0.41
1:B:826:ILE:HG22	1:B:827:LYS:HZ2	1.86	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD22	2.02	0.41
1:B:954:LYS:HE3	1:B:955:LEU:O	2.21	0.41
1:B:1436:SER:OG	1:B:1565:GLU:HB2	2.21	0.41
1:B:2178:MET:O	1:B:2182:ILE:HG12	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2591:ARG:O	1:B:2591:ARG:NE	2.44	0.41
1:B:2605:ASP:HA	1:B:2608:MET:HG2	2.03	0.41
1:B:2770:LYS:HB3	1:B:2787:THR:HG22	2.02	0.41
1:B:2978:GLU:OE1	1:B:3053:ARG:NH2	2.53	0.41
1:E:863:LEU:HD11	1:E:930:LYS:HG3	2.02	0.41
1:E:954:LYS:HE3	1:E:955:LEU:O	2.21	0.41
1:E:996:TRP:CE2	3:F:113:GLU:HB3	2.56	0.41
1:E:1013:ILE:HD12	1:E:1013:ILE:H	1.85	0.41
1:E:1076:ARG:CZ	1:E:1079:LYS:HE2	2.50	0.41
1:E:2212:VAL:HG22	1:E:2256:TYR:CZ	2.55	0.41
1:E:2333:ASP:HA	1:E:2336:ARG:HG2	2.02	0.41
1:E:2354:VAL:HG11	1:E:2453:ILE:HD12	2.03	0.41
1:E:2886:TRP:HH2	1:E:2902:HIS:CE1	2.38	0.41
1:E:3100:SER:OG	1:E:3164:SER:OG	2.38	0.41
1:E:3384:LYS:O	1:E:3388:GLU:HG2	2.21	0.41
1:E:3874:VAL:HG23	1:E:3875:MET:N	2.34	0.41
1:E:3945:GLU:O	1:E:3949:ARG:HG3	2.20	0.41
1:G:893:TYR:H	1:G:962:SER:HB2	1.85	0.41
1:G:1100:MET:HB2	1:G:1143:TRP:CH2	2.55	0.41
1:G:2204:HIS:HA	1:G:2207:VAL:HG12	2.03	0.41
1:G:2627:VAL:HG13	1:G:2678:LEU:HD13	2.03	0.41
1:G:3760:LYS:HA	1:G:3760:LYS:HD3	1.86	0.41
1:G:3834:ALA:O	1:G:3838:THR:HG23	2.21	0.41
1:G:3978:GLN:O	1:G:3982:HIS:ND1	2.53	0.41
1:G:4642:ALA:O	1:G:4646:LEU:HD23	2.21	0.41
1:J:255:HIS:HD2	1:J:480:GLU:CG	2.34	0.41
1:J:2579:VAL:O	1:J:2582:MET:HG2	2.20	0.41
1:J:2640:PRO:O	1:J:2644:LEU:HD23	2.20	0.41
1:J:3054:VAL:HG21	1:J:3131:TYR:HB2	2.02	0.41
1:J:3218:VAL:O	1:J:3222:LYS:HG2	2.20	0.41
1:J:3834:ALA:O	1:J:3838:THR:HG23	2.21	0.41
1:J:4569:LEU:O	1:J:4573:ILE:HG13	2.20	0.41
2:D:61:GLU:O	2:D:65:GLN:HG3	2.21	0.41
1:B:2204:HIS:HA	1:B:2207:VAL:HG12	2.03	0.41
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.20	0.41
1:B:2760:GLU:HG2	1:B:2802:LYS:HE2	2.02	0.41
1:B:3054:VAL:HG21	1:B:3131:TYR:HB2	2.02	0.41
1:B:3359:ILE:HB	1:B:3360:PRO:HD3	2.02	0.41
1:B:3398:PHE:HA	1:B:3401:LEU:HG	2.02	0.41
1:B:4541:TRP:O	1:B:4544:LEU:HG	2.19	0.41
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4927:ILE:HD12	1:E:4936:ILE:HD13	2.03	0.41
1:E:64:ILE:HG23	1:E:402:ARG:HH21	1.84	0.41
1:E:828:GLU:HG3	1:E:840:VAL:HG21	2.03	0.41
1:E:853:PRO:HB2	1:E:994:ASN:OD1	2.21	0.41
1:E:1649:ASP:OD1	1:E:1650:ILE:N	2.54	0.41
1:E:1784:ALA:HA	2:D:55:VAL:HA	2.02	0.41
1:E:3006:ILE:HD11	1:E:3010:PHE:CZ	2.55	0.41
1:E:3445:TRP:HD1	1:E:3451:PHE:CD2	2.38	0.41
1:E:4091:LYS:HD2	1:E:4092:ASP:N	2.35	0.41
1:E:4218:ILE:HD12	1:E:4954:MET:SD	2.60	0.41
1:E:4822:THR:O	1:E:4825:THR:OG1	2.22	0.41
1:G:196:MET:HA	1:G:196:MET:HE3	2.02	0.41
1:G:783:PHE:HB2	1:G:787:VAL:HG21	2.02	0.41
1:G:874:LEU:HD21	1:G:1051:TYR:OH	2.21	0.41
1:G:954:LYS:HE3	1:G:955:LEU:O	2.21	0.41
1:G:1076:ARG:CZ	1:G:1079:LYS:HE2	2.50	0.41
1:G:1613:LEU:HD12	1:G:1613:LEU:H	1.86	0.41
1:G:1780:PRO:HG2	2:H:42:ARG:HD3	2.02	0.41
1:G:2122:SER:O	1:G:2126:ARG:HG3	2.20	0.41
1:G:2333:ASP:HA	1:G:2336:ARG:HG2	2.02	0.41
1:G:2605:ASP:HA	1:G:2608:MET:HG2	2.03	0.41
1:G:2645:THR:HB	1:G:2702:CYS:HA	2.02	0.41
1:G:2648:TYR:CE2	1:G:2706:ILE:HG12	2.55	0.41
1:G:2673:HIS:CD2	1:G:2716:ASP:HB2	2.56	0.41
1:G:3206:LEU:HD12	1:G:3280:TYR:CD2	2.55	0.41
1:G:3534:MET:O	1:G:3538:THR:HG23	2.20	0.41
1:G:4039:MET:SD	1:G:4040:ILE:HG13	2.61	0.41
1:G:4088:ILE:O	1:G:4088:ILE:HG13	2.19	0.41
1:G:4118:ASP:HB2	1:G:4123:ILE:CD1	2.50	0.41
1:G:4243:PHE:HE2	1:G:4668:LEU:HA	1.86	0.41
1:G:4776:GLN:HA	1:G:4779:LYS:HG2	2.02	0.41
1:G:4796:MET:O	1:G:4800:LEU:HG	2.21	0.41
1:J:1100:MET:HB2	1:J:1143:TRP:CH2	2.55	0.41
1:J:2792:ARG:CZ	1:J:2798:SER:H	2.33	0.41
1:J:3006:ILE:HD11	1:J:3010:PHE:CZ	2.55	0.41
1:J:3978:GLN:O	1:J:3982:HIS:ND1	2.53	0.41
3:M:5:GLN:O	3:M:22:CYS:HA	2.20	0.41
1:B:1649:ASP:OD1	1:B:1650:ILE:N	2.54	0.41
1:B:1973:GLN:OE1	1:B:3641:LEU:HB3	2.21	0.41
1:B:3352:GLU:OE1	1:B:3352:GLU:N	2.48	0.41
1:B:3534:MET:O	1:B:3538:THR:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4218:ILE:HD12	1:B:4954:MET:SD	2.60	0.41
1:E:826:ILE:HG22	1:E:827:LYS:HZ2	1.85	0.41
1:E:883:ALA:O	1:E:887:ILE:HG13	2.21	0.41
1:E:977:LEU:HD12	1:E:1044:ARG:HD3	2.02	0.41
1:E:2365:GLY:O	1:E:2369:ARG:NH2	2.54	0.41
1:E:2770:LYS:HB3	1:E:2787:THR:HG22	2.02	0.41
1:E:3201:MET:HA	1:E:3202:PRO:HD3	1.95	0.41
1:E:3870:ASN:O	1:E:3873:LYS:HG2	2.20	0.41
1:E:4859:PHE:CE1	1:E:4909:TYR:HB3	2.55	0.41
1:G:277:GLY:HA2	1:G:315:CYS:HB2	2.02	0.41
1:G:1784:ALA:O	2:H:82:TYR:OH	2.38	0.41
1:G:1973:GLN:OE1	1:G:3641:LEU:HB3	2.21	0.41
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.19	0.41
1:G:2178:MET:O	1:G:2182:ILE:HG12	2.20	0.41
1:G:2978:GLU:HA	1:G:2981:VAL:HG12	2.03	0.41
1:G:3020:THR:HA	1:G:3036:LYS:HE2	2.02	0.41
1:G:3532:LEU:HA	1:G:3535:LEU:HG	2.03	0.41
1:G:3550:ARG:NH2	1:G:3594:ARG:HH22	2.18	0.41
1:G:3945:GLU:O	1:G:3949:ARG:HG3	2.20	0.41
1:G:3984:ARG:HG2	1:G:3987:ASP:HB2	2.02	0.41
1:G:4569:LEU:O	1:G:4573:ILE:HG13	2.20	0.41
1:G:4859:PHE:CE1	1:G:4909:TYR:HB3	2.55	0.41
1:J:345:LEU:HD23	1:J:345:LEU:H	1.85	0.41
1:J:639:ASN:ND2	1:J:676:THR:OG1	2.53	0.41
1:J:883:ALA:O	1:J:887:ILE:HG13	2.21	0.41
1:J:894:GLY:HA3	1:J:903:LEU:HD22	2.02	0.41
1:J:1101:ARG:HG2	1:J:1125:ASN:HB2	2.02	0.41
1:J:1649:ASP:OD1	1:J:1650:ILE:N	2.54	0.41
1:J:1939:MET:HA	1:J:1942:LEU:HD12	2.02	0.41
1:J:2605:ASP:HA	1:J:2608:MET:HG2	2.03	0.41
1:J:2908:TYR:CD1	1:J:2911:LEU:HD11	2.56	0.41
1:J:2978:GLU:OE1	1:J:3053:ARG:NH2	2.53	0.41
1:J:3050:VAL:HG22	1:J:3131:TYR:HE1	1.86	0.41
1:J:3067:CYS:HA	1:J:3070:ILE:HG12	2.03	0.41
1:J:3102:ASP:HA	1:J:3105:LYS:HE2	2.02	0.41
1:J:3187:ARG:NH1	1:J:3268:HIS:HA	2.36	0.41
1:J:4796:MET:O	1:J:4800:LEU:HG	2.21	0.41
1:J:4991:PHE:HE2	1:J:5010:VAL:HG11	1.86	0.41
2:H:15:PHE:HE1	2:H:67:SER:HB3	1.85	0.41
3:C:100:VAL:HG13	3:C:104:TYR:O	2.21	0.41
1:B:322:LYS:HZ2	1:B:354:GLY:HA2	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:765:GLN:H	1:B:765:GLN:CD	2.27	0.41
1:B:853:PRO:HB2	1:B:994:ASN:OD1	2.21	0.41
1:B:1100:MET:HB2	1:B:1143:TRP:CH2	2.55	0.41
1:B:2365:GLY:O	1:B:2369:ARG:NH2	2.54	0.41
1:B:2509:VAL:HG23	1:B:2510:TYR:N	2.36	0.41
1:B:2645:THR:HB	1:B:2702:CYS:HA	2.02	0.41
1:B:3384:LYS:O	1:B:3388:GLU:HG2	2.21	0.41
1:B:3532:LEU:HA	1:B:3535:LEU:HG	2.03	0.41
1:B:3841:VAL:HG21	1:B:3926:LEU:HA	2.02	0.41
1:B:4014:LYS:HG2	1:B:4135:PRO:HB3	2.02	0.41
1:B:4796:MET:O	1:B:4800:LEU:HG	2.21	0.41
1:B:4822:THR:O	1:B:4825:THR:OG1	2.22	0.41
1:E:148:TRP:CH2	1:E:180:LEU:HD13	2.56	0.41
1:E:722:TRP:CZ2	1:E:727:ALA:HB2	2.55	0.41
1:E:887:ILE:HD13	1:E:959:TYR:HB3	2.01	0.41
1:E:1071:ARG:O	1:E:1196:PRO:HD3	2.20	0.41
1:E:1666:THR:HG22	1:E:1670:TYR:CE2	2.56	0.41
1:E:2292:GLU:OE1	1:E:2292:GLU:N	2.42	0.41
1:E:2640:PRO:O	1:E:2644:LEU:HD23	2.20	0.41
1:E:2975:ALA:HA	1:E:3053:ARG:NH2	2.36	0.41
1:E:4130:ASN:HA	1:E:4133:GLN:HG3	2.02	0.41
1:E:4879:MET:HG2	1:E:4880:MET:CE	2.51	0.41
1:G:148:TRP:CH2	1:G:180:LEU:HD13	2.56	0.41
1:G:208:CYS:O	1:G:273:HIS:ND1	2.54	0.41
1:G:894:GLY:HA3	1:G:903:LEU:HD22	2.02	0.41
1:G:1260:MET:SD	1:G:1260:MET:N	2.77	0.41
1:G:1666:THR:HG22	1:G:1670:TYR:CE2	2.56	0.41
1:G:2208:MET:O	1:G:2212:VAL:HG23	2.20	0.41
1:G:2354:VAL:HG11	1:G:2453:ILE:HD12	2.03	0.41
1:G:2908:TYR:CD1	1:G:2911:LEU:HD11	2.56	0.41
1:G:3006:ILE:HD11	1:G:3010:PHE:CZ	2.55	0.41
1:G:3349:ALA:HB1	1:G:3353:LEU:HD12	2.03	0.41
1:G:3944:GLU:O	1:G:3948:LYS:HG3	2.20	0.41
1:G:4122:MET:HE3	1:G:4123:ILE:N	2.28	0.41
1:J:360:ALA:HA	1:J:377:ILE:CD1	2.47	0.41
1:J:625:LEU:CD1	1:J:626:LEU:HD12	2.51	0.41
1:J:788:LYS:CD	1:J:1629:GLN:HB3	2.50	0.41
1:J:1027:LEU:HD13	1:J:1031:THR:HG22	2.03	0.41
1:J:1071:ARG:O	1:J:1196:PRO:HD3	2.20	0.41
1:J:2627:VAL:HG13	1:J:2678:LEU:HD13	2.03	0.41
1:J:2765:LYS:HD3	1:J:2765:LYS:HA	1.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2975:ALA:HA	1:J:3053:ARG:NH2	2.36	0.41
1:J:2996:LYS:O	1:J:3000:LYS:HG2	2.20	0.41
1:J:3398:PHE:HA	1:J:3401:LEU:HG	2.02	0.41
1:J:4118:ASP:HB2	1:J:4123:ILE:CD1	2.50	0.41
1:J:4541:TRP:O	1:J:4544:LEU:HG	2.19	0.41
1:J:4642:ALA:O	1:J:4646:LEU:HD23	2.21	0.41
2:D:81:ALA:HB1	2:D:97:LEU:HD13	2.03	0.41
1:B:246:TYR:CD2	1:B:373:LYS:HD2	2.56	0.41
1:B:783:PHE:HZ	1:B:1615:VAL:HG11	1.84	0.41
1:B:863:LEU:HD11	1:B:930:LYS:HG3	2.02	0.41
1:B:1025:ARG:H	1:B:1025:ARG:HG2	1.73	0.41
1:B:1076:ARG:CZ	1:B:1079:LYS:HE2	2.51	0.41
1:B:1078:GLU:HB3	1:B:1081:TYR:CE2	2.56	0.41
1:B:1599:MET:HG2	1:B:1601:MET:HE3	2.03	0.41
1:B:1763:PRO:HG3	1:B:2094:LEU:HD22	2.03	0.41
1:B:2908:TYR:CD1	1:B:2911:LEU:HD11	2.56	0.41
1:B:3135:ALA:O	1:B:3139:VAL:HG23	2.20	0.41
1:B:3196:ARG:HH12	1:B:3341:PHE:HZ	1.69	0.41
1:B:3218:VAL:O	1:B:3222:LYS:HG2	2.20	0.41
1:B:3398:PHE:CD1	1:B:3451:PHE:HD1	2.39	0.41
1:B:3541:ALA:O	1:B:3543:LYS:HE2	2.21	0.41
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.21	0.41
1:B:4939:ALA:O	1:B:4942:GLU:HG3	2.20	0.41
1:E:151:HIS:NE2	1:E:172:VAL:HB	2.35	0.41
1:E:1613:LEU:H	1:E:1613:LEU:HD12	1.86	0.41
1:E:2908:TYR:CD1	1:E:2911:LEU:HD11	2.56	0.41
1:E:2977:LEU:HD11	1:E:2995:ILE:HD13	2.03	0.41
1:E:4121:GLU:HB2	1:E:4122:MET:H	1.72	0.41
1:E:4243:PHE:HE2	1:E:4668:LEU:HA	1.86	0.41
1:E:4642:ALA:O	1:E:4646:LEU:HD23	2.21	0.41
1:E:4779:LYS:O	1:E:4783:ILE:HG12	2.20	0.41
1:G:255:HIS:HD2	1:G:480:GLU:CG	2.34	0.41
1:G:375:LYS:HE2	1:G:375:LYS:HB2	1.93	0.41
1:G:474:ARG:O	1:G:478:PHE:HD1	2.04	0.41
1:G:1012:ASP:O	1:G:1017:ARG:N	2.52	0.41
1:G:1025:ARG:HG3	1:G:1026:LEU:HD12	2.02	0.41
1:G:1078:GLU:HB3	1:G:1081:TYR:CE2	2.56	0.41
1:G:1676:LEU:HD22	1:G:2167:ILE:HD12	2.03	0.41
1:G:2212:VAL:HG22	1:G:2256:TYR:CZ	2.55	0.41
1:G:2716:ASP:OD1	1:G:2716:ASP:N	2.52	0.41
1:G:4097:MET:SD	1:G:4103:PHE:HD1	2.44	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:853:PRO:HB2	1:J:994:ASN:OD1	2.21	0.41
1:J:893:TYR:H	1:J:962:SER:HB2	1.85	0.41
1:J:1666:THR:HG22	1:J:1670:TYR:CE2	2.56	0.41
1:J:2194:HIS:O	1:J:2198:MET:HG2	2.21	0.41
1:J:2977:LEU:HD11	1:J:2995:ILE:HD13	2.03	0.41
1:J:3249:LEU:HD13	1:J:3276:MET:HE1	2.03	0.41
1:J:3343:GLN:HB2	1:J:3344:PRO:HD3	2.03	0.41
1:J:3955:MET:HE1	1:J:4015:GLU:HG2	2.02	0.41
1:J:4180:ARG:HD2	1:J:4981:GLU:HG2	2.03	0.41
2:D:15:PHE:HE1	2:D:67:SER:HB3	1.85	0.41
2:H:61:GLU:O	2:H:65:GLN:HG3	2.21	0.41
2:H:76:CYS:HB3	2:H:80:VAL:HG23	2.02	0.41
1:B:828:GLU:HG3	1:B:840:VAL:HG21	2.03	0.41
1:B:876:GLU:O	1:B:880:GLU:HG3	2.21	0.41
1:B:1101:ARG:HG2	1:B:1125:ASN:HB2	2.02	0.41
1:B:1260:MET:SD	1:B:1260:MET:N	2.77	0.41
1:B:1646:ARG:NH1	1:B:1648:MET:SD	2.90	0.41
1:B:1666:THR:HG22	1:B:1670:TYR:CE2	2.56	0.41
1:B:1691:GLN:O	1:B:1695:LEU:HG	2.20	0.41
1:B:2380:ILE:HG21	1:B:2469:ILE:HD11	2.03	0.41
1:B:2627:VAL:HG13	1:B:2678:LEU:HD13	2.03	0.41
1:B:2648:TYR:CE2	1:B:2706:ILE:HG12	2.55	0.41
1:B:2792:ARG:CZ	1:B:2798:SER:H	2.33	0.41
1:B:2863:SER:HB2	1:B:2924:GLN:HB2	2.02	0.41
1:B:2978:GLU:HA	1:B:2981:VAL:HG12	2.03	0.41
1:B:3089:LYS:O	1:B:3092:LEU:HG	2.20	0.41
1:B:3249:LEU:HD13	1:B:3276:MET:HE1	2.03	0.41
1:B:3870:ASN:O	1:B:3873:LYS:HG2	2.20	0.41
1:B:3945:GLU:O	1:B:3949:ARG:HG3	2.20	0.41
1:B:3984:ARG:HG2	1:B:3987:ASP:HB2	2.02	0.41
1:B:4039:MET:SD	1:B:4040:ILE:HG13	2.61	0.41
1:B:4202:ARG:HG3	1:B:4206:GLU:OE2	2.21	0.41
1:B:4696:ASP:O	1:B:4700:GLN:HG2	2.20	0.41
1:B:4859:PHE:CE1	1:B:4909:TYR:HB3	2.55	0.41
1:B:4879:MET:HG2	1:B:4880:MET:CE	2.51	0.41
1:E:149:THR:N	1:E:172:VAL:O	2.29	0.41
1:E:195:PHE:HE2	1:J:2359:ARG:HA	1.86	0.41
1:E:245:VAL:HG23	1:E:376:ALA:HB3	2.03	0.41
1:E:247:TYR:HD2	1:E:374:LYS:HB2	1.84	0.41
1:E:255:HIS:HD2	1:E:480:GLU:CG	2.34	0.41
1:E:345:LEU:HD23	1:E:345:LEU:H	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:438:ILE:HG13	1:E:439:GLU:N	2.36	0.41
1:E:921:ASN:HD22	1:E:924:MET:HE2	1.86	0.41
1:E:1003:GLN:HG3	3:F:1:GLN:HE22	1.86	0.41
1:E:1027:LEU:HD13	1:E:1031:THR:HG22	2.03	0.41
1:E:1663:HIS:O	1:E:1667:LEU:HG	2.20	0.41
1:E:2509:VAL:HG23	1:E:2510:TYR:N	2.35	0.41
1:E:3067:CYS:HA	1:E:3070:ILE:HG12	2.03	0.41
1:E:3191:GLY:HA2	1:E:3194:LEU:HG	2.03	0.41
1:E:3327:LEU:HD11	1:E:3365:LEU:HD11	2.02	0.41
1:E:3391:GLU:HA	1:E:3394:VAL:HG22	2.03	0.41
1:E:3510:ILE:C	1:E:3515:LYS:HZ3	2.28	0.41
1:E:3984:ARG:HG2	1:E:3987:ASP:HB2	2.03	0.41
1:E:4039:MET:SD	1:E:4040:ILE:HG13	2.61	0.41
1:E:4152:GLU:CD	1:E:4194:TYR:HH	2.29	0.41
1:E:4941:GLY:HA2	1:E:4944:ARG:HE	1.86	0.41
1:G:438:ILE:HG13	1:G:439:GLU:N	2.36	0.41
1:G:573:GLU:CD	1:G:573:GLU:H	2.28	0.41
1:G:1013:ILE:H	1:G:1013:ILE:HD12	1.85	0.41
1:G:1071:ARG:O	1:G:1196:PRO:HD3	2.20	0.41
1:G:1450:VAL:HG22	1:G:1552:VAL:HG12	2.02	0.41
1:G:1649:ASP:OD1	1:G:1650:ILE:N	2.54	0.41
1:G:1939:MET:HA	1:G:1942:LEU:HD12	2.02	0.41
1:G:2194:HIS:O	1:G:2198:MET:HG2	2.21	0.41
1:G:2251:PHE:CD2	1:G:2286:LEU:HD22	2.56	0.41
1:G:2380:ILE:HG21	1:G:2469:ILE:HD11	2.03	0.41
1:G:2579:VAL:O	1:G:2582:MET:HG2	2.20	0.41
1:G:2770:LYS:HB3	1:G:2787:THR:HG22	2.03	0.41
1:G:3008:GLN:O	1:G:3012:ASN:ND2	2.53	0.41
1:G:3157:ILE:HA	1:G:3161:VAL:HB	2.02	0.41
1:G:3343:GLN:HB2	1:G:3344:PRO:HD3	2.03	0.41
1:G:3384:LYS:O	1:G:3388:GLU:HG2	2.21	0.41
1:G:3398:PHE:CD1	1:G:3451:PHE:HD1	2.39	0.41
1:J:64:ILE:HG23	1:J:402:ARG:HH21	1.84	0.41
1:J:196:MET:HA	1:J:196:MET:HE3	2.02	0.41
1:J:438:ILE:HG13	1:J:439:GLU:N	2.36	0.41
1:J:863:LEU:HD11	1:J:930:LYS:HG3	2.02	0.41
1:J:876:GLU:O	1:J:880:GLU:HG3	2.21	0.41
1:J:977:LEU:HD12	1:J:1044:ARG:HD3	2.02	0.41
1:J:1573:MET:HE2	1:J:1577:ALA:HB2	2.03	0.41
1:J:1973:GLN:OE1	1:J:3641:LEU:HB3	2.21	0.41
1:J:2208:MET:O	1:J:2212:VAL:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2365:GLY:O	1:J:2369:ARG:NH2	2.54	0.41
1:J:2509:VAL:HG23	1:J:2510:TYR:N	2.35	0.41
1:J:2645:THR:HB	1:J:2702:CYS:HA	2.02	0.41
1:J:2747:ILE:H	1:J:2814:LYS:HZ2	1.67	0.41
1:J:2770:LYS:HB3	1:J:2787:THR:HG22	2.02	0.41
1:J:3020:THR:HA	1:J:3036:LYS:HE2	2.02	0.41
1:J:3352:GLU:OE1	1:J:3352:GLU:N	2.48	0.41
1:J:3384:LYS:O	1:J:3388:GLU:HG2	2.21	0.41
1:J:3458:PHE:CZ	1:J:3464:ILE:HG13	2.55	0.41
1:J:3518:LEU:HB3	1:J:3519:PRO:HD3	2.03	0.41
1:J:3532:LEU:HA	1:J:3535:LEU:HG	2.03	0.41
1:J:3874:VAL:HG23	1:J:3875:MET:N	2.34	0.41
1:J:3986:TRP:HZ3	1:J:4044:MET:HE2	1.85	0.41
1:J:4039:MET:SD	1:J:4040:ILE:HG13	2.61	0.41
1:J:4218:ILE:HD12	1:J:4954:MET:SD	2.60	0.41
1:J:4243:PHE:HE2	1:J:4668:LEU:HA	1.86	0.41
1:J:4998:LYS:HE3	1:J:4998:LYS:HB2	1.83	0.41
2:H:23:VAL:HA	2:H:46:PHE:O	2.21	0.41
3:C:102:ASN:HB2	3:C:104:TYR:CE2	2.56	0.41
3:F:5:GLN:NE2	3:F:23:THR:OG1	2.29	0.41
3:M:35:GLY:HA2	3:M:50:THR:HG23	2.01	0.41
1:B:625:LEU:CD1	1:B:626:LEU:HD12	2.51	0.41
1:B:790:ARG:HA	1:B:1626:TRP:O	2.21	0.41
1:B:921:ASN:HD22	1:B:924:MET:HE2	1.86	0.41
1:B:1676:LEU:HD22	1:B:2167:ILE:HD12	2.03	0.41
1:B:2251:PHE:CE2	1:B:2286:LEU:HD22	2.56	0.41
1:B:2354:VAL:HG11	1:B:2453:ILE:HD12	2.03	0.41
1:B:2725:LYS:NZ	1:B:2736:ASP:OD2	2.41	0.41
1:B:2871:LEU:O	1:B:2874:MET:HG3	2.21	0.41
1:B:3052:HIS:CD2	1:B:3053:ARG:NH1	2.89	0.41
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.21	0.41
1:B:4198:SER:HB3	1:B:4201:ASN:CG	2.46	0.41
1:B:4958:CYS:HA	5:B:5102:ATP:C8	2.56	0.41
1:E:625:LEU:CD1	1:E:626:LEU:HD12	2.51	0.41
1:E:1100:MET:HB2	1:E:1143:TRP:CH2	2.55	0.41
1:E:1101:ARG:HG2	1:E:1125:ASN:HB2	2.02	0.41
1:E:2251:PHE:CD2	1:E:2286:LEU:HD22	2.56	0.41
1:E:2605:ASP:HA	1:E:2608:MET:HG2	2.03	0.41
1:E:2760:GLU:HG2	1:E:2802:LYS:HE2	2.02	0.41
1:E:2792:ARG:CZ	1:E:2798:SER:H	2.33	0.41
1:E:2871:LEU:O	1:E:2874:MET:HG3	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3007:ASN:HA	1:E:3070:ILE:HD11	2.02	0.41
1:E:3089:LYS:O	1:E:3092:LEU:HG	2.20	0.41
1:E:3218:VAL:O	1:E:3222:LYS:HG2	2.20	0.41
1:E:3349:ALA:HB1	1:E:3353:LEU:HD12	2.03	0.41
1:E:3398:PHE:CD1	1:E:3451:PHE:HD1	2.39	0.41
1:E:3518:LEU:HB3	1:E:3519:PRO:HD3	2.03	0.41
1:G:876:GLU:O	1:G:880:GLU:HG3	2.21	0.41
1:G:3246:LEU:O	1:G:3250:MET:HG3	2.21	0.41
1:G:3249:LEU:HD13	1:G:3276:MET:HE1	2.03	0.41
1:G:3573:MET:O	1:G:3577:ARG:HG2	2.21	0.41
1:G:3986:TRP:HZ3	1:G:4044:MET:HE2	1.85	0.41
1:J:363:ASP:HB3	1:J:366:ALA:HB3	2.03	0.41
1:J:651:GLY:O	1:J:658:GLN:HG3	2.21	0.41
1:J:753:PRO:HB3	1:J:773:LEU:HD11	2.03	0.41
1:J:1013:ILE:H	1:J:1013:ILE:HD12	1.85	0.41
1:J:1240:LYS:HE2	1:J:1240:LYS:HB3	1.92	0.41
1:J:1436:SER:OG	1:J:1565:GLU:HB2	2.21	0.41
1:J:2204:HIS:HA	1:J:2207:VAL:HG12	2.03	0.41
1:J:2827:ARG:NE	1:J:2935:TYR:OH	2.28	0.41
1:J:3349:ALA:HB1	1:J:3353:LEU:HD12	2.03	0.41
1:J:4198:SER:HB3	1:J:4201:ASN:CG	2.46	0.41
2:A:81:ALA:HB1	2:A:97:LEU:HD13	2.03	0.41
2:D:30:LEU:HD22	2:D:36:PHE:CD1	2.56	0.41
3:C:5:GLN:O	3:C:22:CYS:HA	2.20	0.41
1:B:345:LEU:HD23	1:B:345:LEU:H	1.85	0.40
1:B:438:ILE:HG13	1:B:439:GLU:N	2.36	0.40
1:B:2212:VAL:HG22	1:B:2256:TYR:CZ	2.55	0.40
1:B:2251:PHE:CD2	1:B:2286:LEU:HD22	2.56	0.40
1:B:2967:MET:O	1:B:2970:SER:OG	2.27	0.40
1:B:3102:ASP:HA	1:B:3105:LYS:HE2	2.03	0.40
1:B:3343:GLN:HB2	1:B:3344:PRO:HD3	2.03	0.40
1:B:4097:MET:SD	1:B:4103:PHE:HD1	2.44	0.40
1:E:790:ARG:HA	1:E:1626:TRP:O	2.21	0.40
1:E:2927:LEU:HA	1:E:2930:LEU:HD12	2.04	0.40
1:E:3196:ARG:HH12	1:E:3341:PHE:HZ	1.69	0.40
1:E:3261:ALA:O	1:E:3325:ASN:ND2	2.54	0.40
1:E:3516:LYS:HD3	1:E:3516:LYS:HA	1.90	0.40
1:E:3573:MET:O	1:E:3577:ARG:HG2	2.21	0.40
1:E:4796:MET:O	1:E:4800:LEU:HG	2.21	0.40
1:E:4822:THR:O	1:E:4826:ILE:HG13	2.22	0.40
1:G:625:LEU:CD1	1:G:626:LEU:HD12	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:826:ILE:HG22	1:G:827:LYS:HZ2	1.85	0.40
1:G:1478:ASP:OD1	1:G:1482:ASN:N	2.53	0.40
1:G:1573:MET:HE2	1:G:1577:ALA:HB2	2.03	0.40
1:G:1646:ARG:NH1	1:G:1648:MET:SD	2.90	0.40
1:G:1771:LEU:HD11	1:G:2144:ILE:HD11	2.03	0.40
1:G:2365:GLY:O	1:G:2369:ARG:NH2	2.54	0.40
1:G:2875:ALA:HB2	1:G:2927:LEU:HD22	2.03	0.40
1:G:2975:ALA:HA	1:G:3053:ARG:NH2	2.36	0.40
1:G:3052:HIS:CD2	1:G:3053:ARG:NH1	2.89	0.40
1:G:3816:MET:O	1:G:3820:LEU:HG	2.22	0.40
1:J:462:GLU:H	1:J:462:GLU:CD	2.29	0.40
1:J:803:LEU:HD23	1:J:803:LEU:HA	1.91	0.40
1:J:1078:GLU:HB3	1:J:1081:TYR:CE2	2.56	0.40
1:J:1613:LEU:H	1:J:1613:LEU:HD12	1.86	0.40
1:J:2380:ILE:HG21	1:J:2469:ILE:HD11	2.03	0.40
1:J:3196:ARG:HH12	1:J:3341:PHE:HZ	1.69	0.40
1:J:3391:GLU:HA	1:J:3394:VAL:HG22	2.03	0.40
1:J:4879:MET:HG2	1:J:4880:MET:CE	2.51	0.40
2:D:23:VAL:HA	2:D:46:PHE:O	2.21	0.40
2:H:11:ASP:O	2:H:13:ARG:NH1	2.54	0.40
2:I:61:GLU:O	2:I:65:GLN:HG3	2.21	0.40
2:I:66:MET:HG3	2:I:67:SER:H	1.86	0.40
1:B:16:THR:HB	1:B:98:HIS:HA	2.02	0.40
1:B:208:CYS:O	1:B:273:HIS:ND1	2.54	0.40
1:B:1087:ARG:HB3	1:B:1223:PHE:HD1	1.83	0.40
1:B:2194:HIS:O	1:B:2198:MET:HG2	2.21	0.40
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	2.03	0.40
1:B:3008:GLN:NE2	1:B:3012:ASN:HD22	2.20	0.40
1:B:3050:VAL:HG22	1:B:3131:TYR:HE1	1.86	0.40
1:B:3437:MET:O	1:B:3441:ILE:HG13	2.22	0.40
1:B:3530:GLN:O	1:B:3534:MET:HG2	2.20	0.40
1:B:3955:MET:HE1	1:B:4015:GLU:HG2	2.02	0.40
1:B:4180:ARG:HD2	1:B:4981:GLU:HG2	2.03	0.40
1:B:4776:GLN:HA	1:B:4779:LYS:HG2	2.02	0.40
1:E:16:THR:HB	1:E:98:HIS:HA	2.02	0.40
1:E:144:GLU:HA	1:E:147:TRP:CD1	2.56	0.40
1:E:277:GLY:HA2	1:E:315:CYS:HB2	2.02	0.40
1:E:783:PHE:HB2	1:E:787:VAL:HG21	2.02	0.40
1:E:894:GLY:H	1:E:904:HIS:H	1.68	0.40
1:E:1436:SER:OG	1:E:1565:GLU:HB2	2.21	0.40
1:E:1763:PRO:HG3	1:E:2094:LEU:HD22	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1973:GLN:OE1	1:E:3641:LEU:HB3	2.21	0.40
1:E:2204:HIS:HA	1:E:2207:VAL:HG12	2.02	0.40
1:E:2673:HIS:CD2	1:E:2716:ASP:HB2	2.56	0.40
1:E:3050:VAL:HG22	1:E:3131:TYR:HE1	1.86	0.40
1:E:3054:VAL:HG21	1:E:3131:TYR:HB2	2.02	0.40
1:E:3398:PHE:HA	1:E:3401:LEU:HG	2.02	0.40
1:G:372:LEU:O	1:G:374:LYS:HG2	2.20	0.40
1:G:924:MET:HE1	3:M:106:PRO:HG2	2.03	0.40
1:G:2522:LEU:HA	1:G:2526:PHE:HB2	2.03	0.40
1:G:3135:ALA:O	1:G:3139:VAL:HG23	2.20	0.40
1:J:16:THR:HB	1:J:98:HIS:HA	2.02	0.40
1:J:208:CYS:O	1:J:273:HIS:ND1	2.54	0.40
1:J:596:ASN:OD1	1:J:596:ASN:N	2.55	0.40
1:J:1154:ASP:OD1	1:J:1154:ASP:N	2.54	0.40
1:J:2736:ASP:OD1	1:J:2736:ASP:N	2.51	0.40
1:J:3052:HIS:CD2	1:J:3053:ARG:NH1	2.89	0.40
1:J:3157:ILE:HA	1:J:3161:VAL:HB	2.02	0.40
1:J:3327:LEU:HD11	1:J:3365:LEU:HD11	2.02	0.40
1:J:3573:MET:O	1:J:3577:ARG:HG2	2.21	0.40
1:J:3604:TYR:HE1	1:J:3608:GLN:HE21	1.69	0.40
1:J:3816:MET:O	1:J:3820:LEU:HG	2.21	0.40
1:J:4202:ARG:HG3	1:J:4206:GLU:OE2	2.21	0.40
1:J:4958:CYS:HA	5:J:5102:ATP:C8	2.56	0.40
2:A:61:GLU:O	2:A:65:GLN:HG3	2.21	0.40
2:A:76:CYS:HB3	2:A:80:VAL:HG23	2.02	0.40
2:D:66:MET:HG3	2:D:67:SER:H	1.86	0.40
2:H:7:ILE:CG2	2:H:71:ARG:HE	2.35	0.40
3:F:59:TYR:HB3	3:F:63:VAL:HG21	2.03	0.40
3:M:104:TYR:CD1	3:M:104:TYR:C	2.99	0.40
1:B:1071:ARG:O	1:B:1196:PRO:HD3	2.20	0.40
1:B:2975:ALA:HA	1:B:3053:ARG:NH2	2.36	0.40
1:B:3391:GLU:HA	1:B:3394:VAL:HG22	2.03	0.40
1:B:3457:ASN:OD1	1:B:3458:PHE:N	2.55	0.40
1:B:3518:LEU:HB3	1:B:3519:PRO:HD3	2.03	0.40
1:B:3658:LYS:HB2	1:B:3658:LYS:HE3	1.79	0.40
1:B:3842:LEU:O	1:B:3929:SER:HB3	2.21	0.40
1:B:4991:PHE:HE2	1:B:5010:VAL:HG11	1.85	0.40
1:E:2251:PHE:CE2	1:E:2286:LEU:HD22	2.56	0.40
1:E:2627:VAL:HG13	1:E:2678:LEU:HD13	2.03	0.40
1:E:2645:THR:HB	1:E:2702:CYS:HA	2.02	0.40
1:E:2806:ARG:HG3	1:E:2810:LYS:HZ1	1.85	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2978:GLU:OE1	1:E:3053:ARG:NH2	2.53	0.40
1:E:3052:HIS:CD2	1:E:3053:ARG:NH1	2.89	0.40
1:E:3187:ARG:NH1	1:E:3268:HIS:HA	2.36	0.40
1:E:3246:LEU:O	1:E:3250:MET:HG3	2.21	0.40
1:E:3816:MET:O	1:E:3820:LEU:HG	2.22	0.40
1:G:345:LEU:HD23	1:G:345:LEU:H	1.85	0.40
1:G:613:ALA:HB1	1:G:618:GLN:NE2	2.37	0.40
1:G:1436:SER:OG	1:G:1565:GLU:HB2	2.21	0.40
1:G:2927:LEU:HA	1:G:2930:LEU:HD12	2.04	0.40
1:G:3008:GLN:NE2	1:G:3012:ASN:HD22	2.20	0.40
1:G:3100:SER:OG	1:G:3164:SER:OG	2.38	0.40
1:G:3261:ALA:O	1:G:3325:ASN:ND2	2.54	0.40
1:G:3391:GLU:HA	1:G:3394:VAL:HG22	2.03	0.40
1:G:3443:ILE:HG22	1:G:3605:HIS:ND1	2.37	0.40
1:J:144:GLU:HA	1:J:147:TRP:CD1	2.56	0.40
1:J:235:ALA:H	1:J:373:LYS:HE3	1.86	0.40
1:J:894:GLY:H	1:J:904:HIS:H	1.68	0.40
1:J:954:LYS:HA	1:J:954:LYS:HD2	1.77	0.40
1:J:1003:GLN:HG3	3:K:1:GLN:HE22	1.86	0.40
1:J:1599:MET:HG2	1:J:1601:MET:HE3	2.03	0.40
1:J:1763:PRO:HG3	1:J:2094:LEU:HD22	2.03	0.40
1:J:3191:GLY:HA2	1:J:3194:LEU:HG	2.03	0.40
2:A:23:VAL:HA	2:A:46:PHE:O	2.21	0.40
2:H:66:MET:HG3	2:H:67:SER:H	1.86	0.40
2:I:23:VAL:HA	2:I:46:PHE:O	2.21	0.40
2:I:30:LEU:HD22	2:I:36:PHE:CD1	2.56	0.40
2:I:81:ALA:HB1	2:I:97:LEU:HD13	2.03	0.40
3:M:100:VAL:HG13	3:M:104:TYR:O	2.21	0.40
1:B:1043:VAL:HA	1:B:1046:LEU:HD12	2.03	0.40
1:B:2790:MET:HG3	1:B:2792:ARG:CZ	2.52	0.40
1:B:2977:LEU:HD11	1:B:2995:ILE:HD13	2.03	0.40
1:B:3006:ILE:HD11	1:B:3010:PHE:CZ	2.55	0.40
1:B:3100:SER:OG	1:B:3164:SER:OG	2.38	0.40
1:B:3443:ILE:HG22	1:B:3605:HIS:ND1	2.36	0.40
1:B:4043:GLN:O	1:B:4047:MET:HG2	2.22	0.40
1:E:596:ASN:OD1	1:E:596:ASN:N	2.55	0.40
1:E:651:GLY:O	1:E:658:GLN:HG3	2.21	0.40
1:E:1078:GLU:HB3	1:E:1081:TYR:CE2	2.56	0.40
1:E:2194:HIS:O	1:E:2198:MET:HG2	2.21	0.40
1:E:3102:ASP:HA	1:E:3105:LYS:HE2	2.02	0.40
1:E:3532:LEU:HA	1:E:3535:LEU:HG	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3541:ALA:O	1:E:3543:LYS:HE2	2.21	0.40
1:E:3591:LYS:O	1:E:3595:ARG:HG2	2.22	0.40
1:E:3834:ALA:O	1:E:3838:THR:HG23	2.21	0.40
1:E:4198:SER:HB3	1:E:4201:ASN:CG	2.46	0.40
1:G:16:THR:HB	1:G:98:HIS:HA	2.02	0.40
1:G:487:VAL:O	1:G:491:ILE:HG13	2.22	0.40
1:G:2251:PHE:CE2	1:G:2286:LEU:HD22	2.57	0.40
1:G:2871:LEU:O	1:G:2874:MET:HG3	2.21	0.40
1:G:3067:CYS:HA	1:G:3070:ILE:HG12	2.03	0.40
1:G:3102:ASP:HA	1:G:3105:LYS:HE2	2.03	0.40
1:G:4822:THR:O	1:G:4826:ILE:HG13	2.22	0.40
1:J:148:TRP:CH2	1:J:180:LEU:HD13	2.56	0.40
1:J:487:VAL:O	1:J:491:ILE:HG13	2.22	0.40
1:J:514:SER:O	1:J:518:ILE:HG13	2.22	0.40
1:J:2122:SER:O	1:J:2126:ARG:HG3	2.20	0.40
1:J:2134:LEU:O	1:J:2138:LEU:HG	2.20	0.40
1:J:2875:ALA:HB2	1:J:2927:LEU:HD22	2.03	0.40
1:J:3237:GLU:H	1:J:3237:GLU:CD	2.29	0.40
1:J:3261:ALA:O	1:J:3325:ASN:ND2	2.54	0.40
1:J:3398:PHE:CD1	1:J:3451:PHE:HD1	2.39	0.40
1:J:4097:MET:SD	1:J:4103:PHE:HD1	2.44	0.40
1:J:4822:THR:O	1:J:4826:ILE:HG13	2.22	0.40
2:A:11:ASP:O	2:A:13:ARG:NH1	2.54	0.40
2:D:78:PRO:HG3	2:D:95:ALA:O	2.22	0.40
2:I:15:PHE:HE1	2:I:67:SER:HB3	1.85	0.40
1:B:255:HIS:HD2	1:B:480:GLU:CG	2.34	0.40
1:B:474:ARG:O	1:B:478:PHE:HD1	2.04	0.40
1:B:651:GLY:O	1:B:658:GLN:HG3	2.21	0.40
1:B:786:GLY:N	1:B:1630:CYS:O	2.55	0.40
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.22	0.40
1:B:1004:GLY:C	1:B:1016:ARG:HE	2.30	0.40
1:B:2875:ALA:HB2	1:B:2927:LEU:HD22	2.03	0.40
1:B:2927:LEU:HA	1:B:2930:LEU:HD12	2.04	0.40
1:B:3187:ARG:NH1	1:B:3268:HIS:HA	2.36	0.40
1:B:3833:GLN:O	1:B:3836:MET:HG3	2.22	0.40
1:B:4821:LYS:O	1:B:4824:ARG:HB2	2.22	0.40
1:E:793:LEU:HD12	1:E:821:LEU:HD21	2.04	0.40
1:E:2380:ILE:HG21	1:E:2469:ILE:HD11	2.03	0.40
1:E:3008:GLN:NE2	1:E:3012:ASN:HD22	2.20	0.40
1:E:3035:GLU:HA	1:E:3038:MET:HG2	2.04	0.40
1:E:3592:ILE:HA	1:E:3595:ARG:HE	1.87	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3992:PHE:O	1:E:3996:PHE:HD2	2.05	0.40
1:E:4202:ARG:HG3	1:E:4206:GLU:OE2	2.21	0.40
1:E:4879:MET:HE2	1:J:4580:TYR:N	2.32	0.40
1:G:400:ALA:O	1:G:404:ILE:HG13	2.22	0.40
1:G:786:GLY:N	1:G:1630:CYS:O	2.55	0.40
1:G:863:LEU:HD11	1:G:930:LYS:HG3	2.02	0.40
1:G:999:ASP:O	1:G:1003:GLN:HG3	2.22	0.40
1:G:1679:ASN:O	1:G:1683:HIS:ND1	2.55	0.40
1:G:2579:VAL:O	1:G:2583:LEU:HD23	2.22	0.40
1:G:3050:VAL:HG22	1:G:3131:TYR:HE1	1.86	0.40
1:G:3187:ARG:NH1	1:G:3268:HIS:HA	2.36	0.40
1:G:3518:LEU:HB3	1:G:3519:PRO:HD3	2.03	0.40
1:G:4198:SER:HB3	1:G:4201:ASN:CG	2.46	0.40
1:G:4218:ILE:HD12	1:G:4954:MET:SD	2.60	0.40
1:G:4879:MET:HG2	1:G:4880:MET:CE	2.51	0.40
1:J:786:GLY:N	1:J:1630:CYS:O	2.55	0.40
1:J:790:ARG:HA	1:J:1626:TRP:O	2.21	0.40
1:J:1043:VAL:HA	1:J:1046:LEU:HD12	2.03	0.40
1:J:2251:PHE:CE2	1:J:2286:LEU:HD22	2.57	0.40
1:J:3443:ILE:HG22	1:J:3605:HIS:ND1	2.37	0.40
1:J:3842:LEU:O	1:J:3929:SER:HB3	2.22	0.40
2:I:7:ILE:CG2	2:I:71:ARG:HE	2.35	0.40
2:I:11:ASP:O	2:I:13:ARG:NH1	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	4280/5027 (85%)	4189 (98%)	89 (2%)	2 (0%)	100	100
1	E	4280/5027 (85%)	4190 (98%)	88 (2%)	2 (0%)	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	4280/5027 (85%)	4190 (98%)	88 (2%)	2 (0%)	100	100
1	J	4280/5027 (85%)	4190 (98%)	88 (2%)	2 (0%)	100	100
2	A	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	12	47
2	D	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	12	47
2	H	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	12	47
2	I	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	12	47
3	C	124/137 (90%)	113 (91%)	11 (9%)	0	100	100
3	F	124/137 (90%)	113 (91%)	11 (9%)	0	100	100
3	K	124/137 (90%)	113 (91%)	11 (9%)	0	100	100
3	M	124/137 (90%)	111 (90%)	13 (10%)	0	100	100
All	All	18036/21084 (86%)	17593 (98%)	431 (2%)	12 (0%)	49	83

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	86	GLY
2	D	86	GLY
2	H	86	GLY
2	I	86	GLY
1	B	2909	ASP
1	E	2909	ASP
1	G	2909	ASP
1	J	2909	ASP
1	B	2910	THR
1	E	2910	THR
1	G	2910	THR
1	J	2910	THR

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	3659/4270 (86%)	3659 (100%)	0	100	100
1	E	3659/4270 (86%)	3659 (100%)	0	100	100
1	G	3659/4270 (86%)	3659 (100%)	0	100	100
1	J	3659/4270 (86%)	3658 (100%)	1 (0%)	100	100
2	A	88/88 (100%)	88 (100%)	0	100	100
2	D	88/88 (100%)	88 (100%)	0	100	100
2	H	88/88 (100%)	88 (100%)	0	100	100
2	I	88/88 (100%)	88 (100%)	0	100	100
3	C	104/114 (91%)	104 (100%)	0	100	100
3	F	104/114 (91%)	104 (100%)	0	100	100
3	K	104/114 (91%)	104 (100%)	0	100	100
3	M	104/114 (91%)	104 (100%)	0	100	100
All	All	15404/17888 (86%)	15403 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	J	372	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (160) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	12	GLN
1	B	278	GLN
1	B	479	GLN
1	B	736	HIS
1	B	860	GLN
1	B	877	ASN
1	B	921	ASN
1	B	1125	ASN
1	B	1296	GLN
1	B	1691	GLN
1	B	1696	HIS
1	B	2204	HIS
1	B	2574	HIS
1	B	2673	HIS
1	B	2734	ASN
1	B	2772	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	2892	GLN
1	B	3008	GLN
1	B	3013	HIS
1	B	3149	GLN
1	B	3162	GLN
1	B	3456	GLN
1	B	3530	GLN
1	B	3813	GLN
1	B	3850	GLN
1	B	3882	GLN
1	B	3895	HIS
1	B	3927	GLN
1	B	3960	GLN
1	B	3970	GLN
1	B	3994	HIS
1	B	4043	GLN
1	B	4142	ASN
1	B	5003	HIS
1	E	12	GLN
1	E	201	ASN
1	E	278	GLN
1	E	479	GLN
1	E	736	HIS
1	E	860	GLN
1	E	877	ASN
1	E	921	ASN
1	E	1125	ASN
1	E	1691	GLN
1	E	2112	GLN
1	E	2204	HIS
1	E	2414	ASN
1	E	2574	HIS
1	E	2673	HIS
1	E	2734	ASN
1	E	2772	GLN
1	E	2892	GLN
1	E	3008	GLN
1	E	3013	HIS
1	E	3146	HIS
1	E	3149	GLN
1	E	3150	HIS
1	E	3162	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	3456	GLN
1	E	3530	GLN
1	E	3813	GLN
1	E	3850	GLN
1	E	3882	GLN
1	E	3895	HIS
1	E	3960	GLN
1	E	3970	GLN
1	E	3994	HIS
1	E	4043	GLN
1	E	4142	ASN
1	E	5003	HIS
1	G	12	GLN
1	G	201	ASN
1	G	479	GLN
1	G	736	HIS
1	G	860	GLN
1	G	877	ASN
1	G	1125	ASN
1	G	1296	GLN
1	G	1691	GLN
1	G	1696	HIS
1	G	2112	GLN
1	G	2204	HIS
1	G	2308	GLN
1	G	2574	HIS
1	G	2673	HIS
1	G	2734	ASN
1	G	2772	GLN
1	G	2892	GLN
1	G	2902	HIS
1	G	2924	GLN
1	G	3008	GLN
1	G	3013	HIS
1	G	3146	HIS
1	G	3149	GLN
1	G	3150	HIS
1	G	3456	GLN
1	G	3530	GLN
1	G	3813	GLN
1	G	3850	GLN
1	G	3882	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	3895	HIS
1	G	3927	GLN
1	G	3960	GLN
1	G	3970	GLN
1	G	3994	HIS
1	G	4043	GLN
1	G	4142	ASN
1	G	4946	GLN
1	G	5003	HIS
1	J	12	GLN
1	J	201	ASN
1	J	479	GLN
1	J	736	HIS
1	J	860	GLN
1	J	877	ASN
1	J	904	HIS
1	J	921	ASN
1	J	1125	ASN
1	J	1296	GLN
1	J	1691	GLN
1	J	2112	GLN
1	J	2204	HIS
1	J	2574	HIS
1	J	2673	HIS
1	J	2734	ASN
1	J	2772	GLN
1	J	2892	GLN
1	J	3008	GLN
1	J	3013	HIS
1	J	3146	HIS
1	J	3149	GLN
1	J	3150	HIS
1	J	3456	GLN
1	J	3530	GLN
1	J	3813	GLN
1	J	3850	GLN
1	J	3882	GLN
1	J	3895	HIS
1	J	3927	GLN
1	J	3960	GLN
1	J	3994	HIS
1	J	4043	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	4142	ASN
1	J	4946	GLN
1	J	4973	HIS
1	J	5003	HIS
3	C	5	GLN
3	C	39	GLN
3	C	44	GLN
3	C	122	GLN
3	F	5	GLN
3	F	39	GLN
3	F	44	GLN
3	F	122	GLN
3	K	39	GLN
3	K	44	GLN
3	K	122	GLN
3	M	39	GLN
3	M	44	GLN
3	M	122	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	ATP	J	5102	-	32,33,33	0.25	0	48,52,52	0.31	0
5	ATP	E	5102	-	32,33,33	0.26	0	48,52,52	0.31	0
5	ATP	B	5102	-	32,33,33	0.26	0	48,52,52	0.31	0
6	CFF	B	5103	-	15,15,15	0.49	0	23,23,23	0.71	1 (4%)
6	CFF	J	5103	-	15,15,15	0.49	0	23,23,23	0.70	1 (4%)
6	CFF	E	5103	-	15,15,15	0.49	0	23,23,23	0.71	1 (4%)
5	ATP	G	5102	-	32,33,33	0.25	0	48,52,52	0.31	0
6	CFF	G	5103	-	15,15,15	0.50	0	23,23,23	0.71	1 (4%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	ATP	J	5102	-	-	5/22/38/38	0/3/3/3
5	ATP	E	5102	-	-	5/22/38/38	0/3/3/3
5	ATP	B	5102	-	-	5/22/38/38	0/3/3/3
6	CFF	B	5103	-	-	-	0/2/2/2
6	CFF	J	5103	-	-	-	0/2/2/2
6	CFF	E	5103	-	-	-	0/2/2/2
5	ATP	G	5102	-	-	5/22/38/38	0/3/3/3
6	CFF	G	5103	-	-	-	0/2/2/2

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	5103	CFF	C12-N3-C2	2.25	121.26	117.33
6	E	5103	CFF	C12-N3-C2	2.25	121.25	117.33
6	B	5103	CFF	C12-N3-C2	2.24	121.23	117.33
6	J	5103	CFF	C12-N3-C2	2.23	121.21	117.33

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	5102	ATP	C5'-O5'-PA-O1A
5	B	5102	ATP	C5'-O5'-PA-O2A
5	B	5102	ATP	C5'-O5'-PA-O3A
5	E	5102	ATP	C5'-O5'-PA-O1A
5	E	5102	ATP	C5'-O5'-PA-O2A
5	E	5102	ATP	C5'-O5'-PA-O3A
5	G	5102	ATP	C5'-O5'-PA-O1A
5	G	5102	ATP	C5'-O5'-PA-O2A
5	G	5102	ATP	C5'-O5'-PA-O3A
5	J	5102	ATP	C5'-O5'-PA-O1A
5	J	5102	ATP	C5'-O5'-PA-O2A
5	J	5102	ATP	C5'-O5'-PA-O3A
5	B	5102	ATP	C4'-C5'-O5'-PA
5	E	5102	ATP	C4'-C5'-O5'-PA
5	G	5102	ATP	C4'-C5'-O5'-PA
5	J	5102	ATP	C4'-C5'-O5'-PA
5	B	5102	ATP	O4'-C4'-C5'-O5'
5	E	5102	ATP	O4'-C4'-C5'-O5'
5	G	5102	ATP	O4'-C4'-C5'-O5'
5	J	5102	ATP	O4'-C4'-C5'-O5'

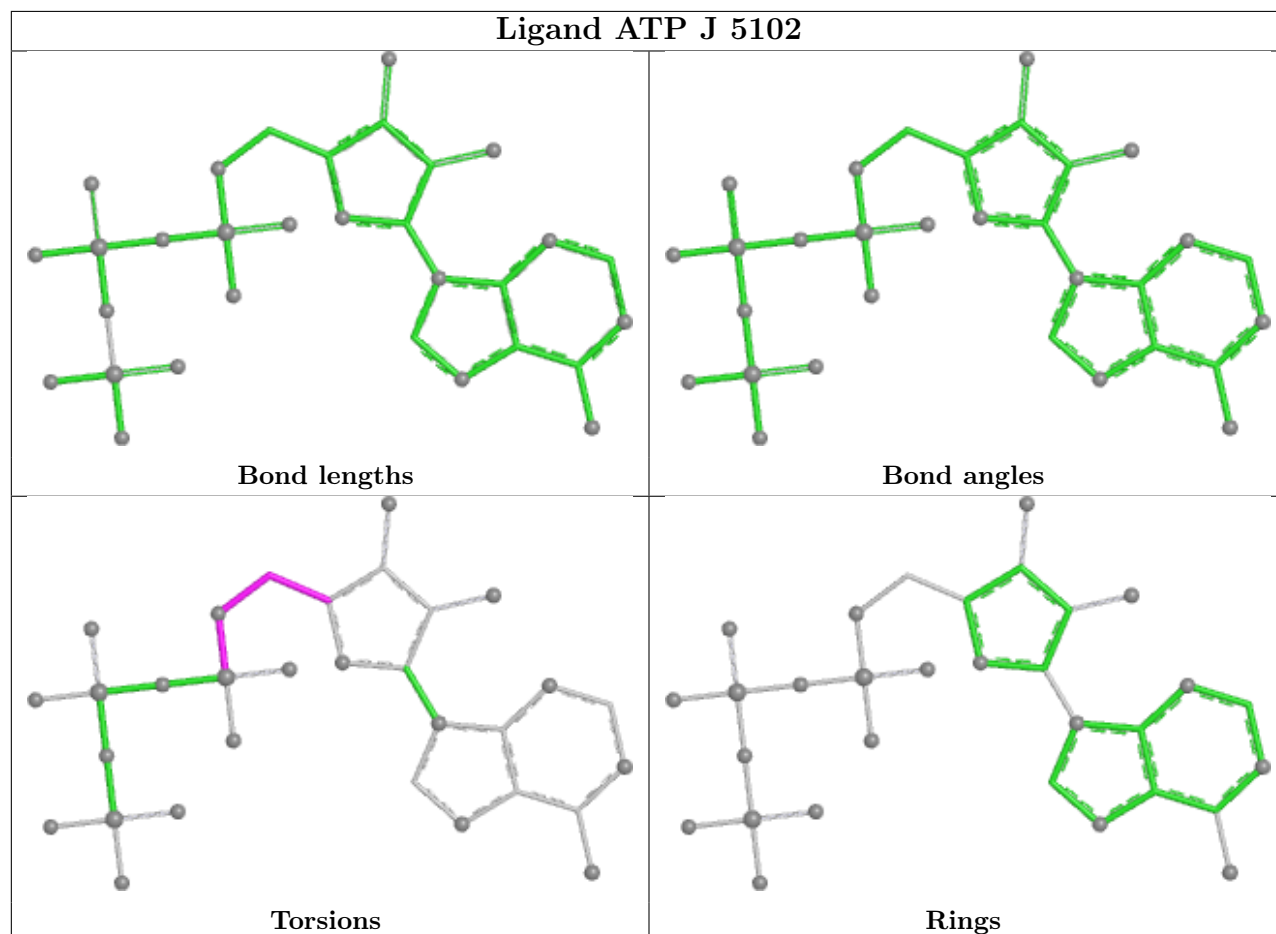
There are no ring outliers.

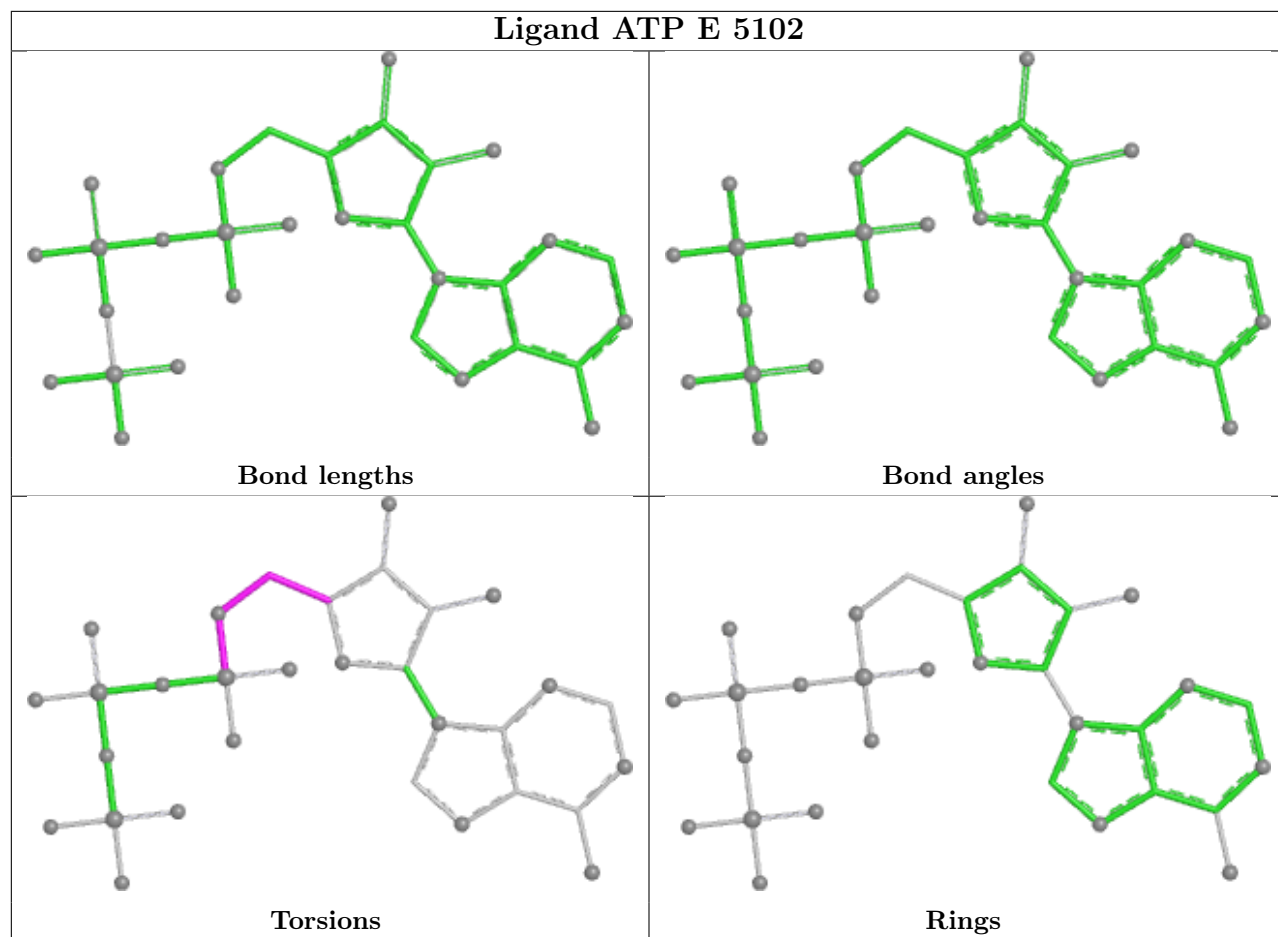
8 monomers are involved in 10 short contacts:

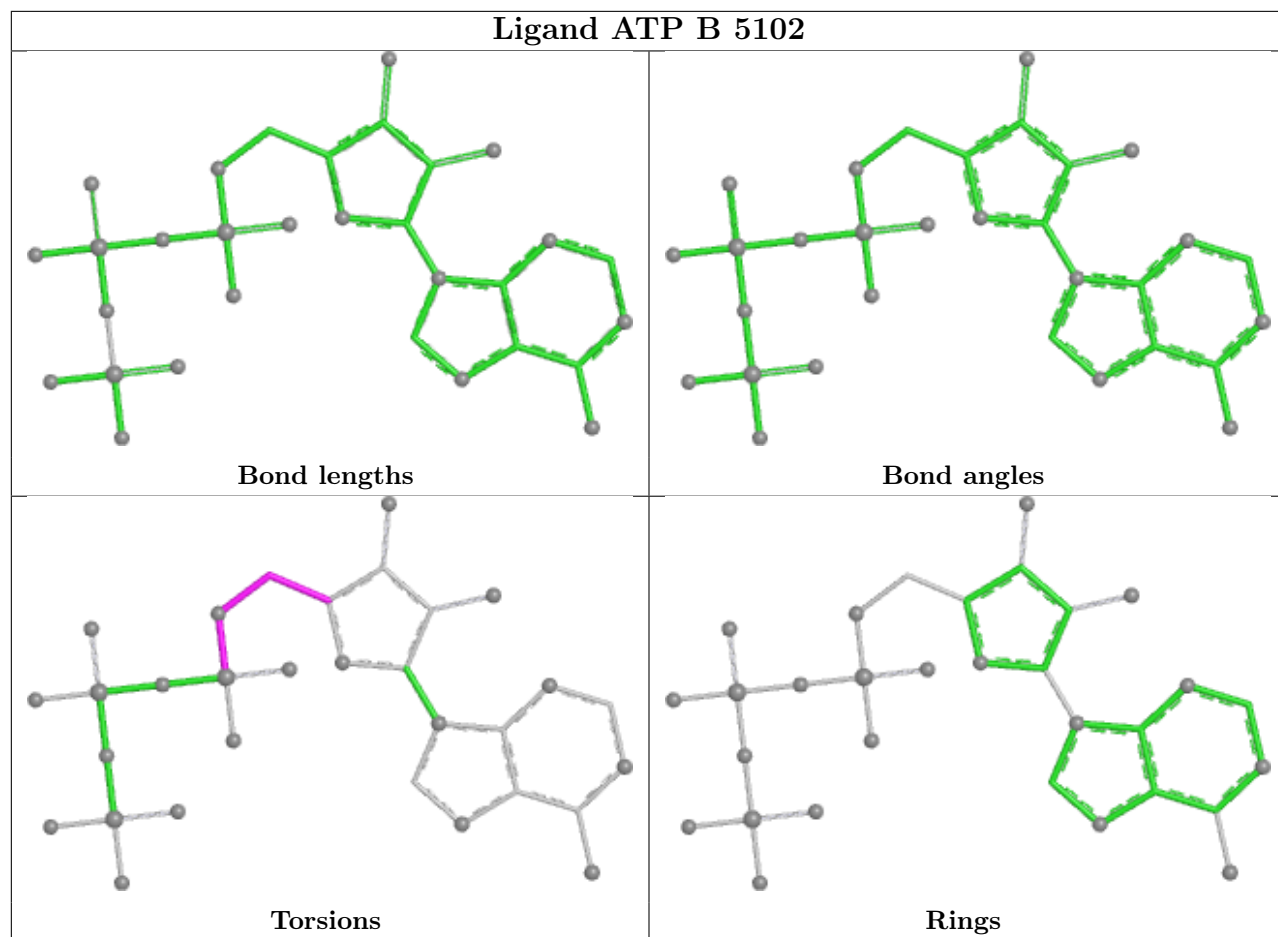
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	J	5102	ATP	2	0
5	E	5102	ATP	1	0
5	B	5102	ATP	2	0
6	B	5103	CFF	1	0
6	J	5103	CFF	1	0
6	E	5103	CFF	1	0
5	G	5102	ATP	1	0
6	G	5103	CFF	1	0

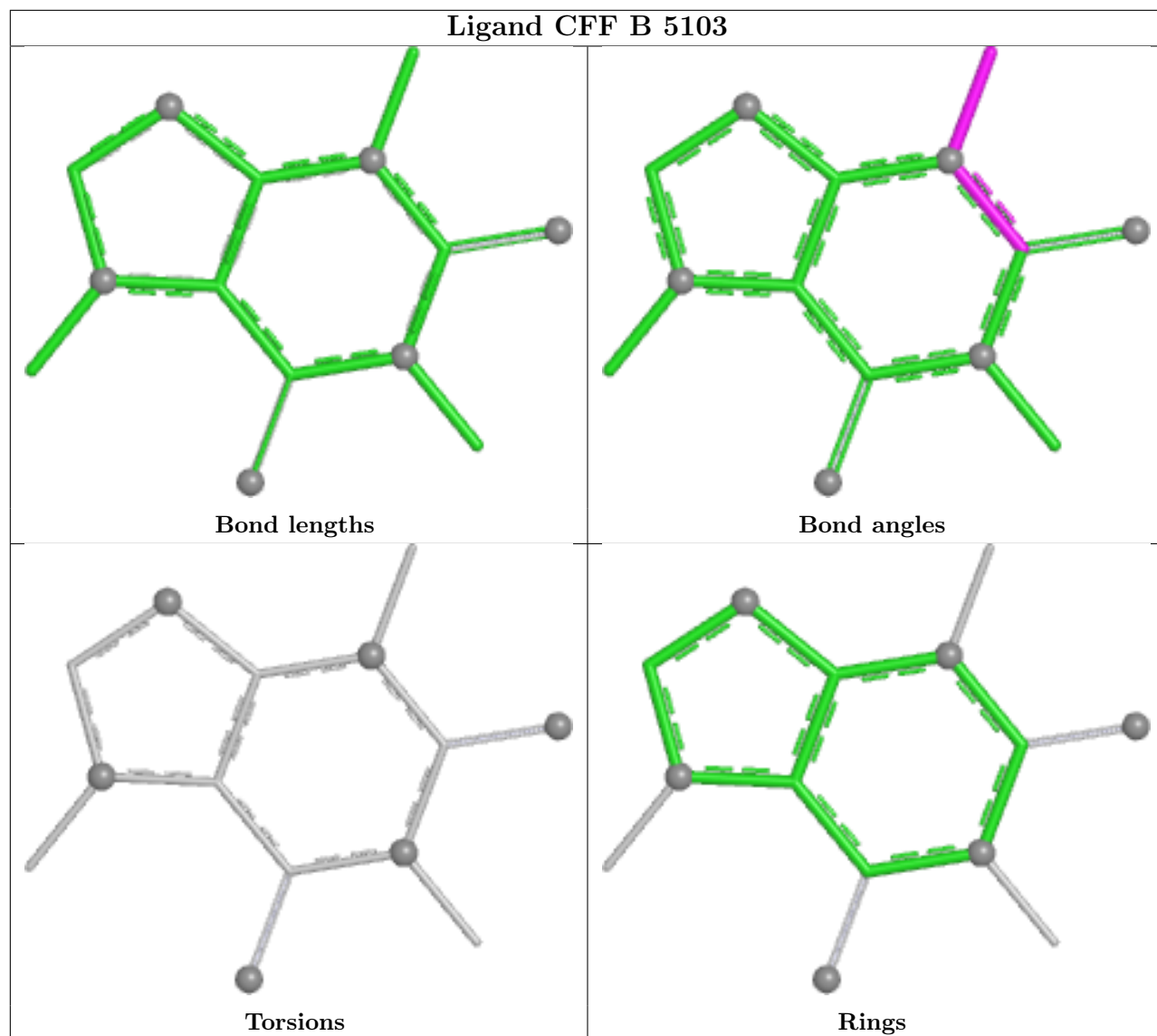
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

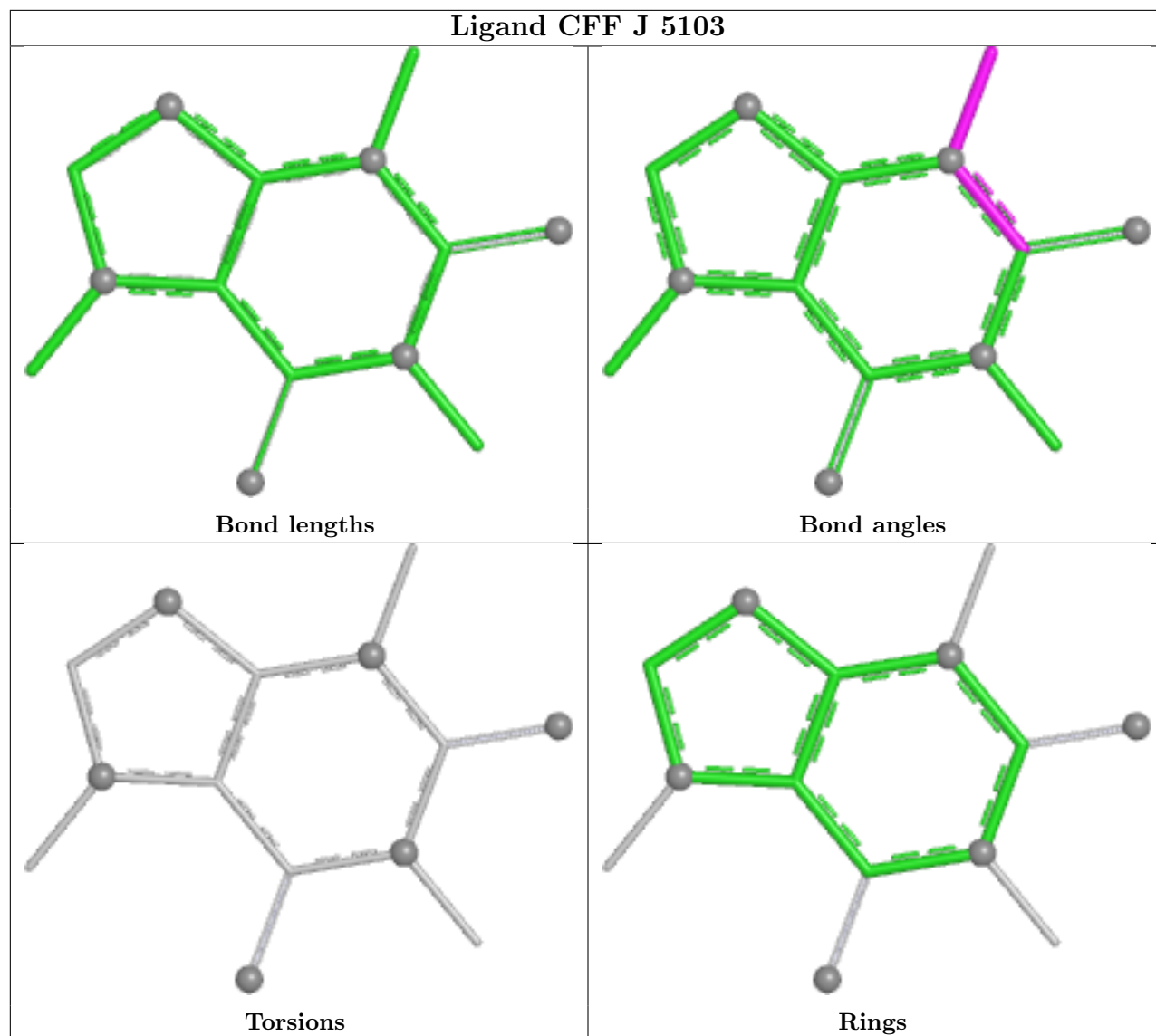
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

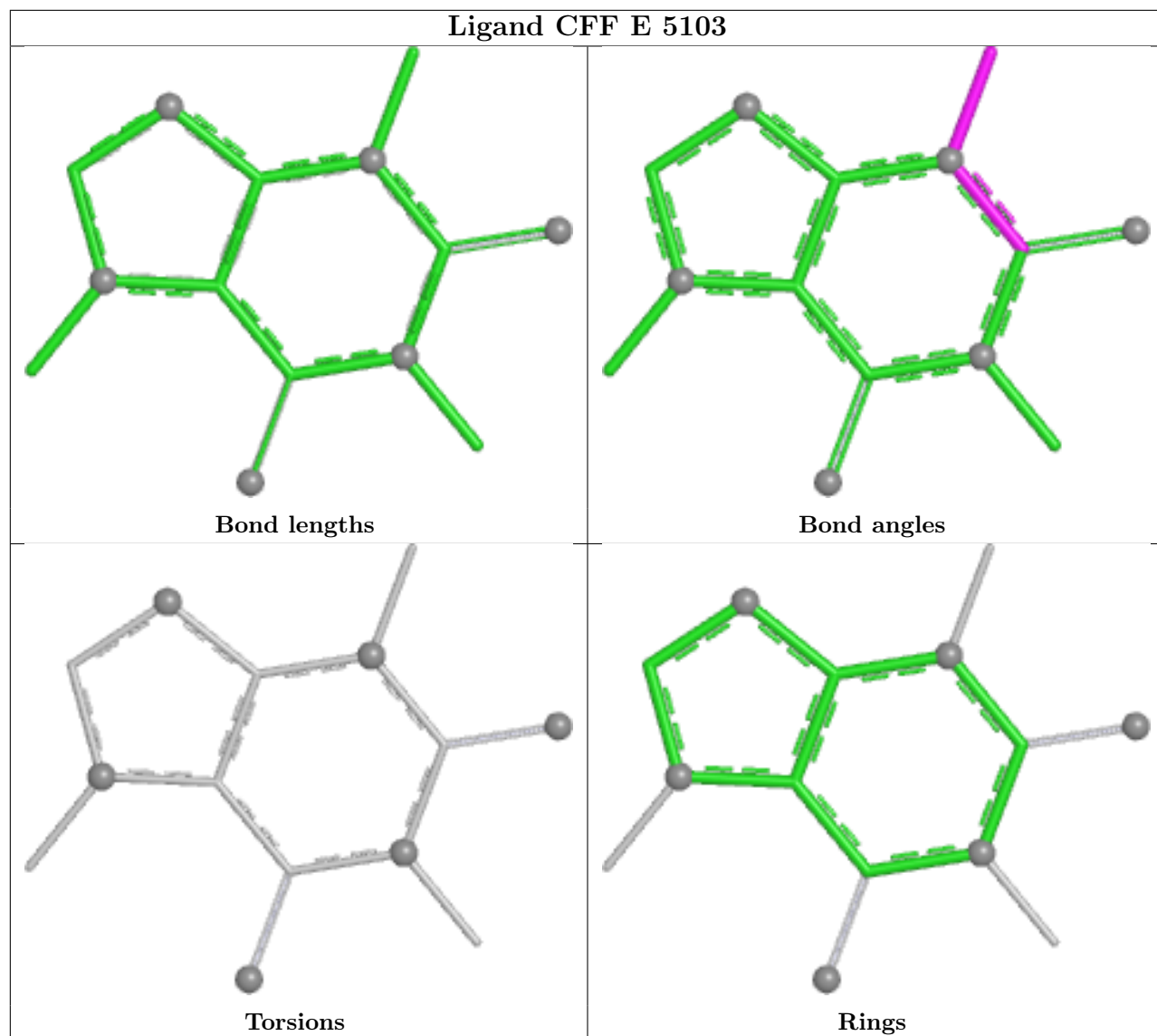


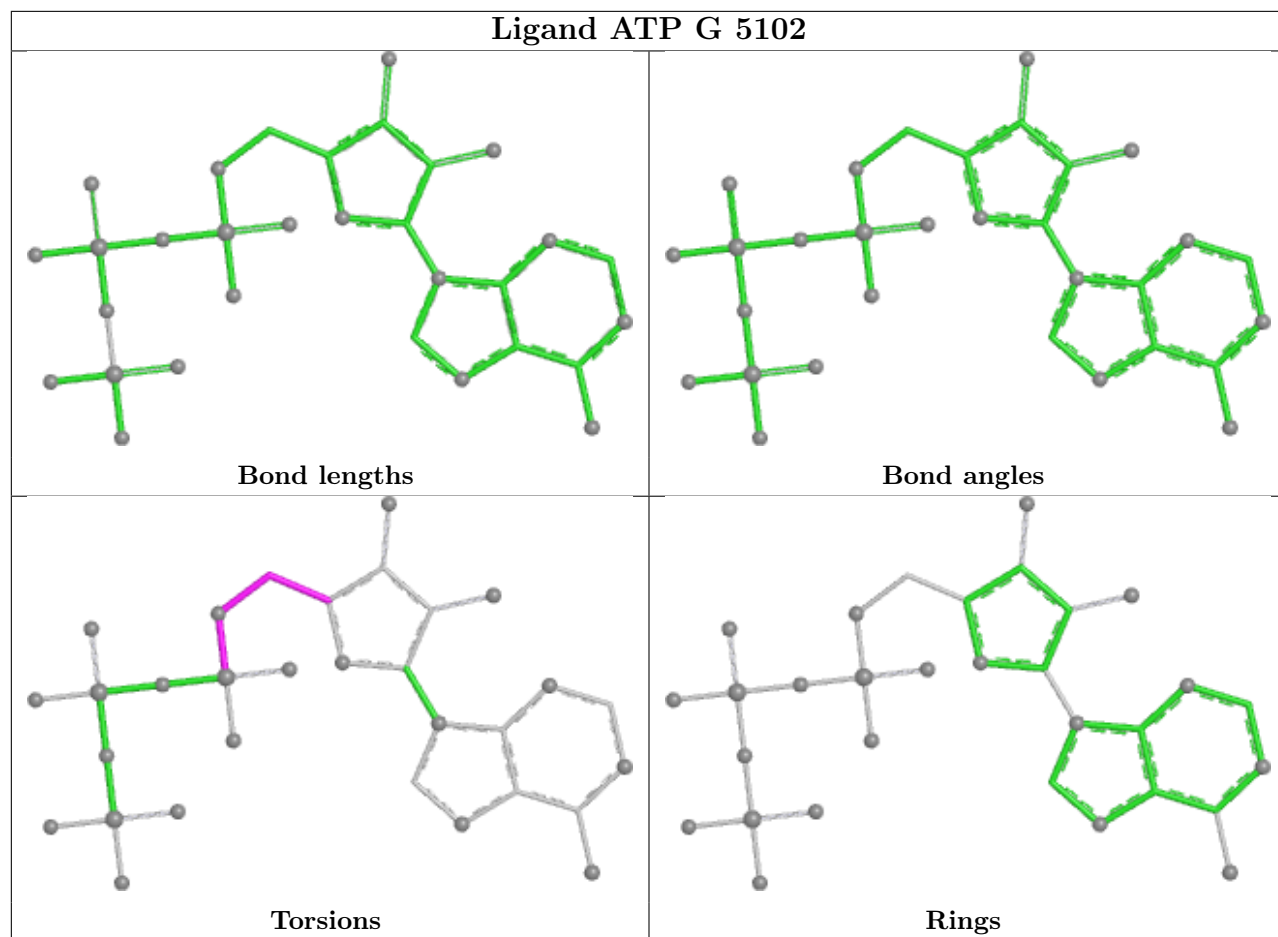


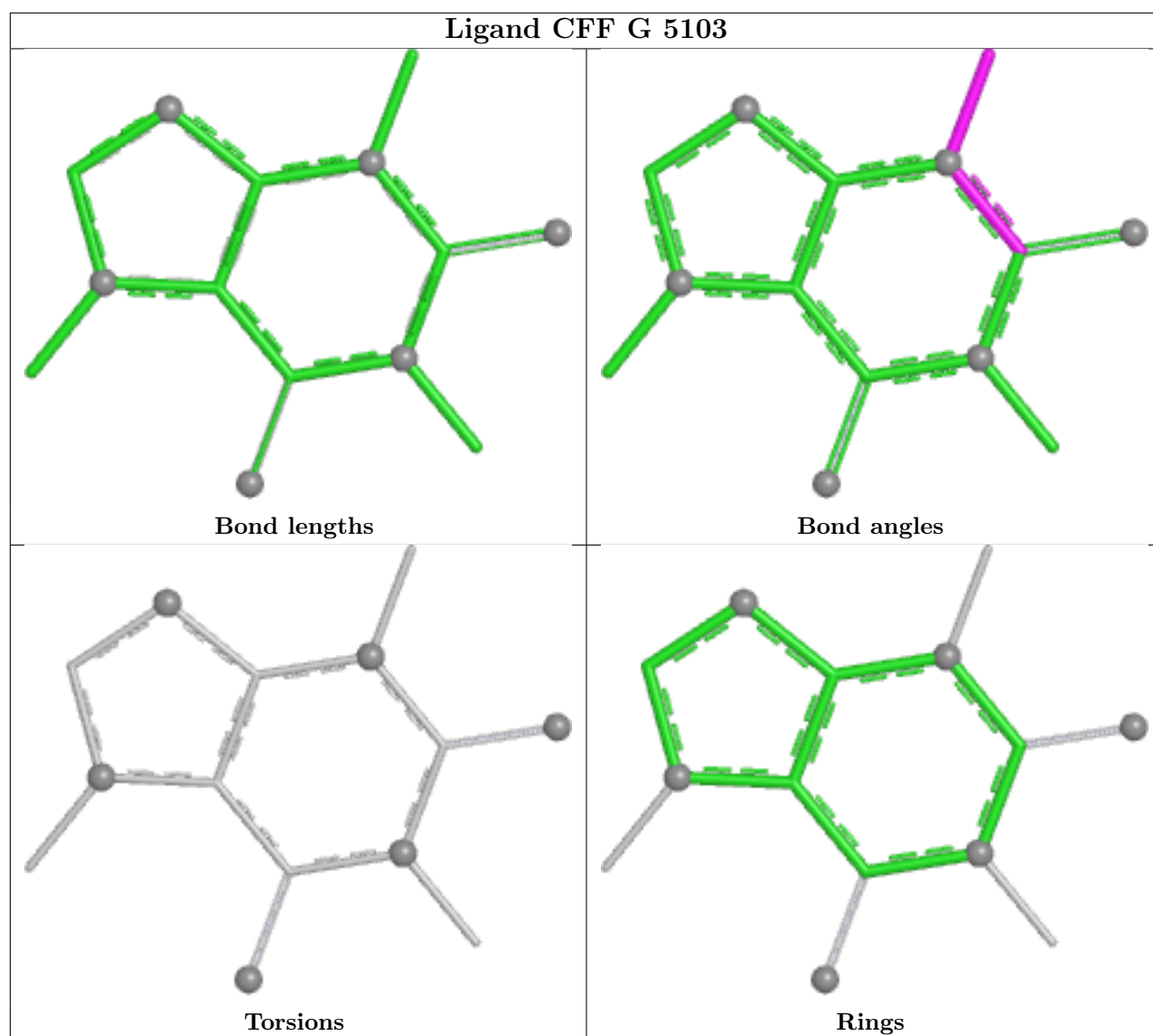












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

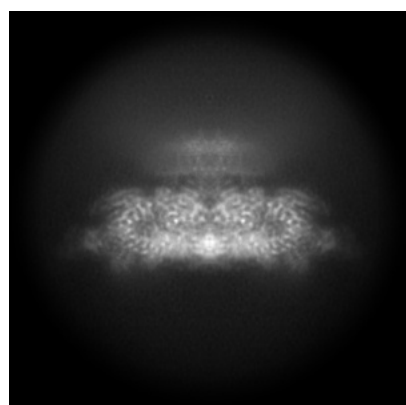
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19464. These allow visual inspection of the internal detail of the map and identification of artifacts.

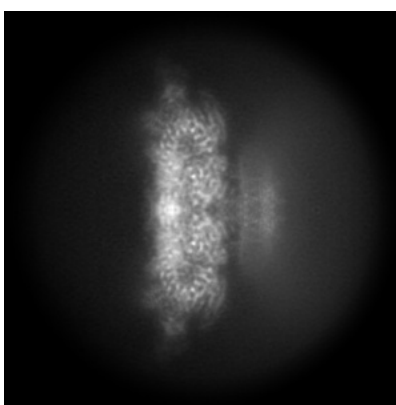
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

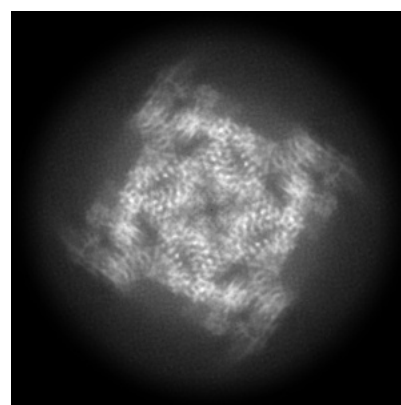
6.1.1 Primary map



X



Y

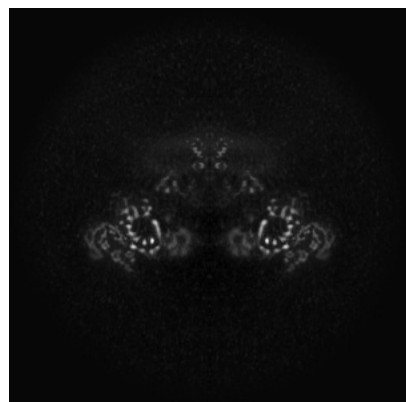


Z

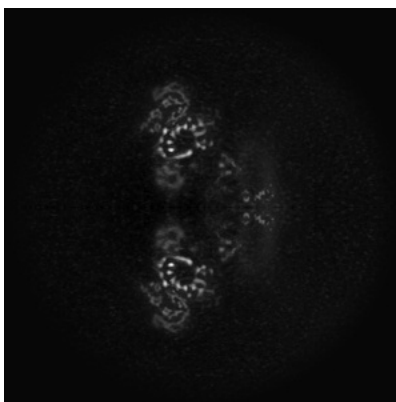
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

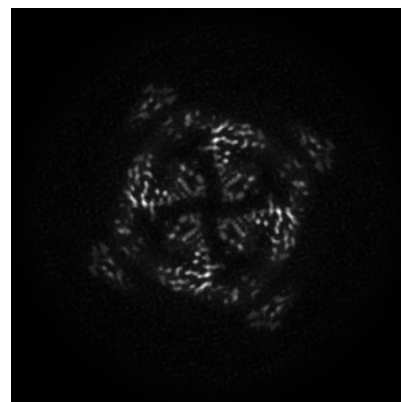
6.2.1 Primary map



X Index: 168



Y Index: 168

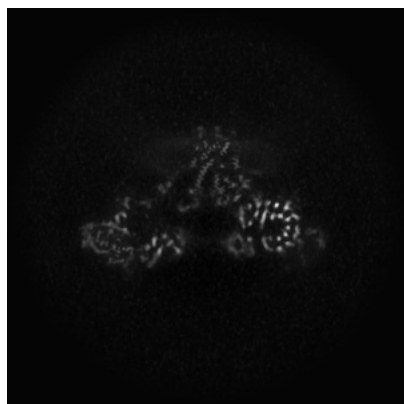


Z Index: 168

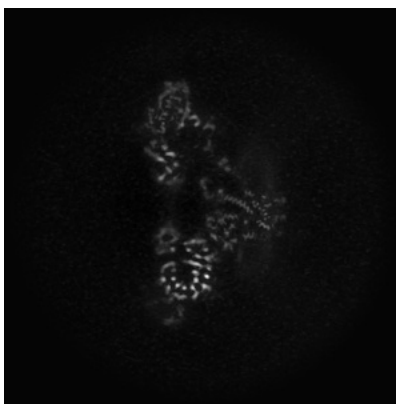
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

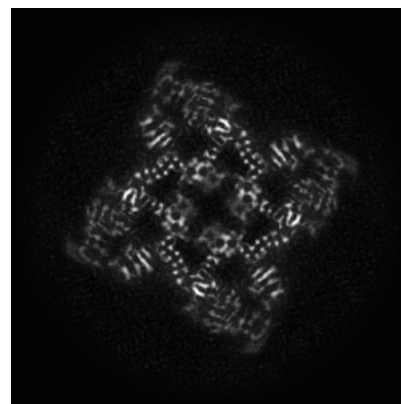
6.3.1 Primary map



X Index: 175



Y Index: 175

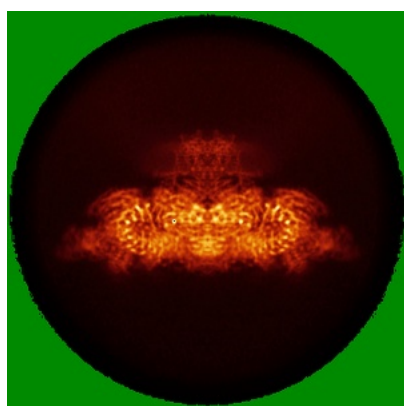


Z Index: 144

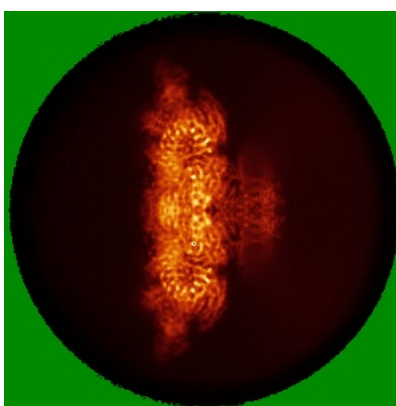
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

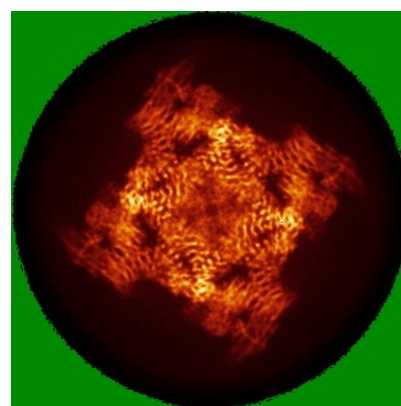
6.4.1 Primary map



X



Y

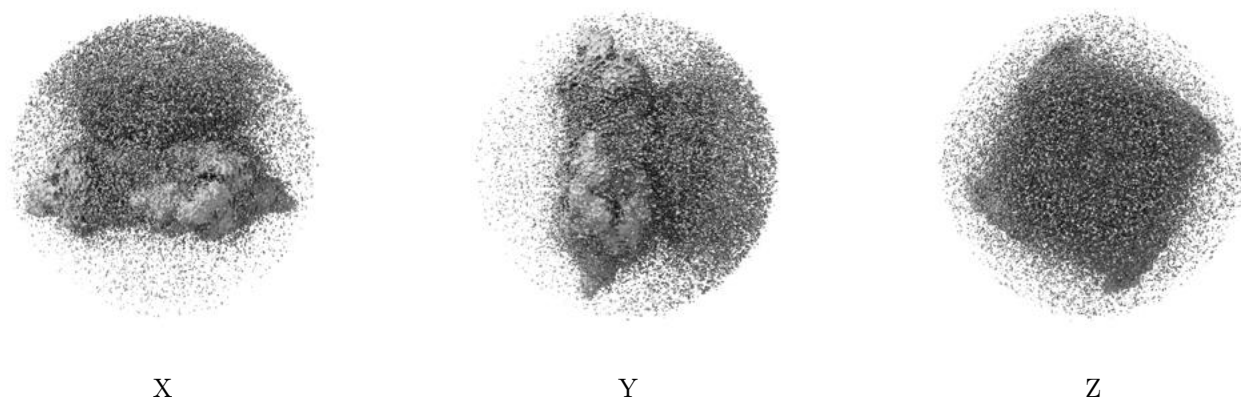


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

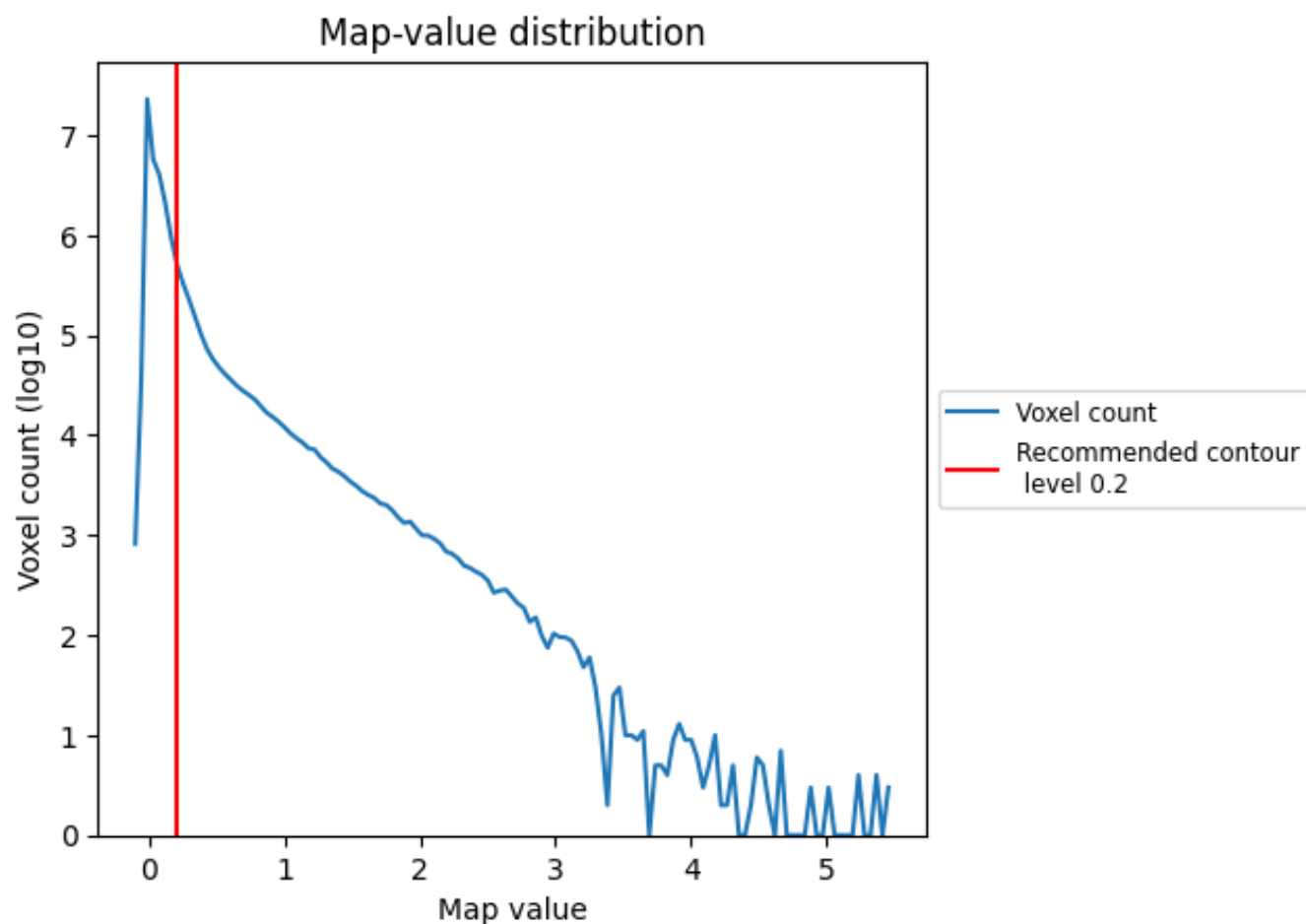
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

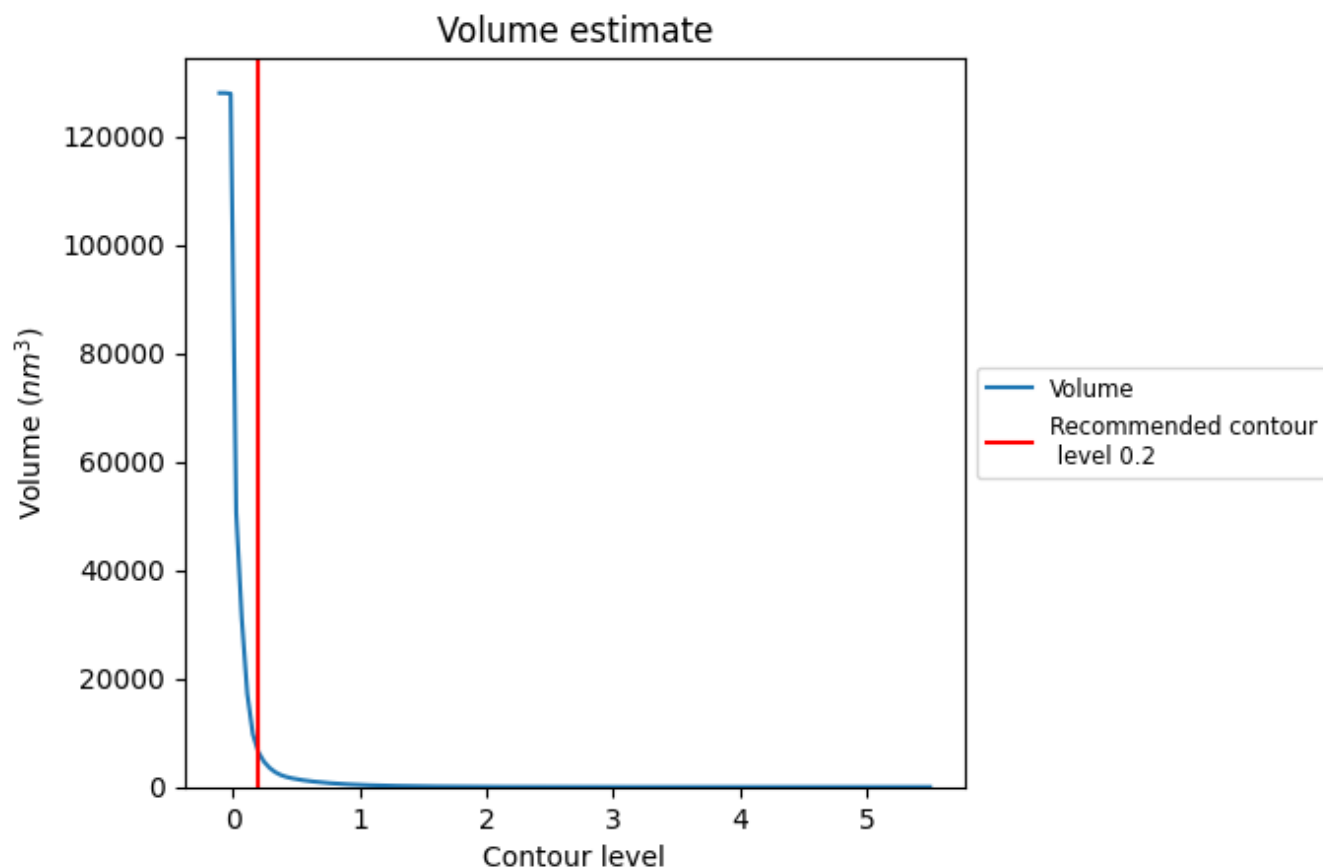
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

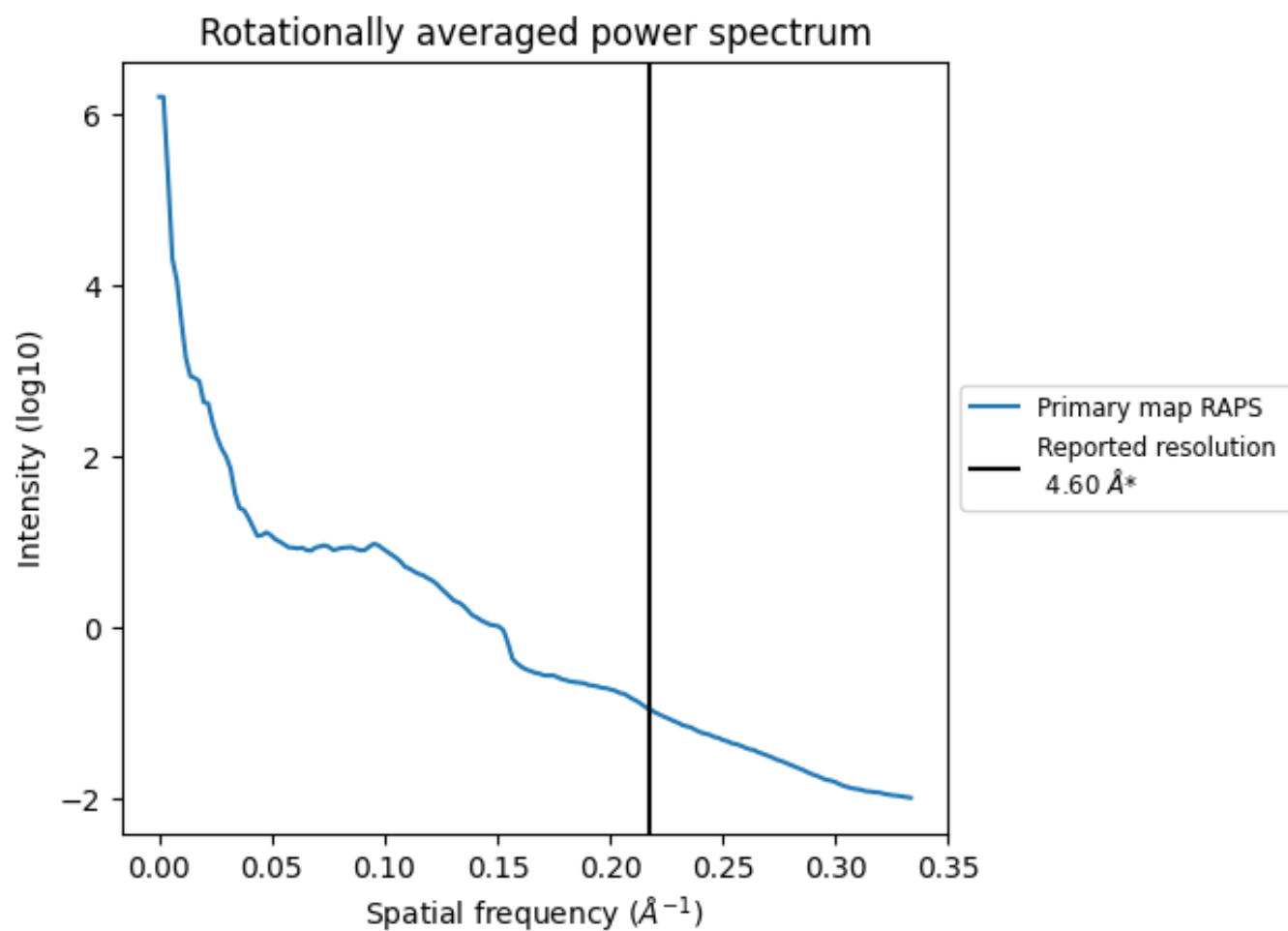
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 6569 nm^3 ; this corresponds to an approximate mass of 5934 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

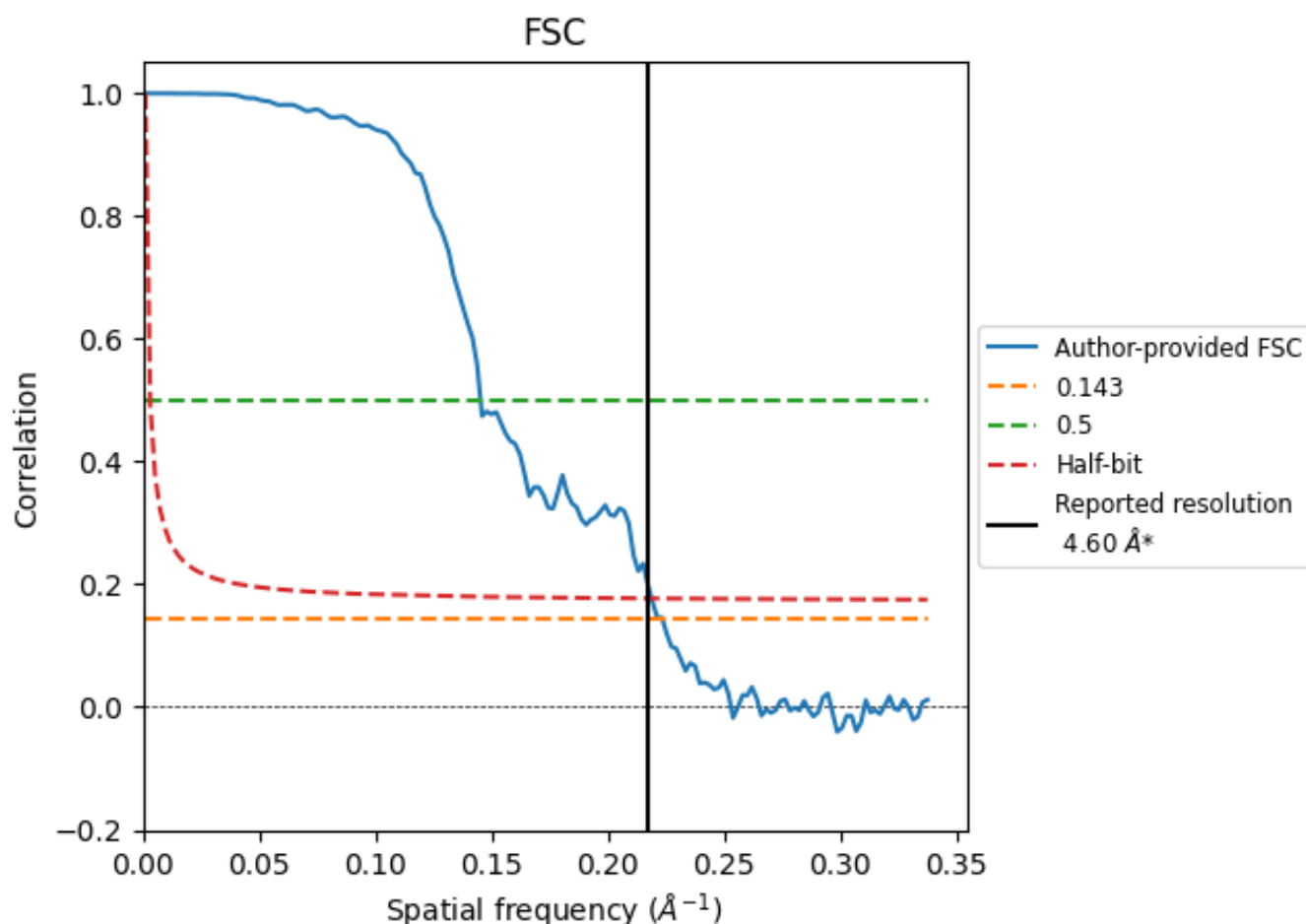


*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.48	6.89	4.57
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

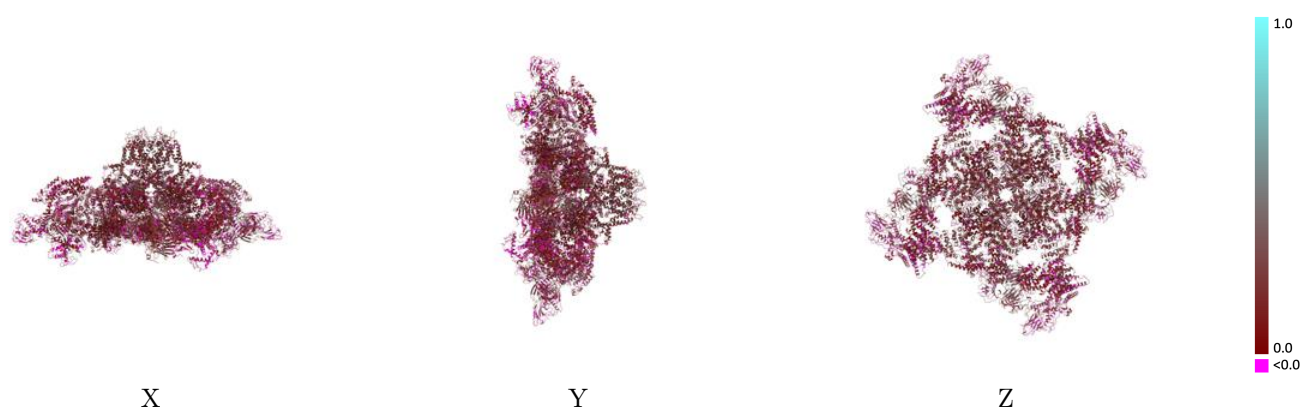
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-19464 and PDB model 8RRT. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)

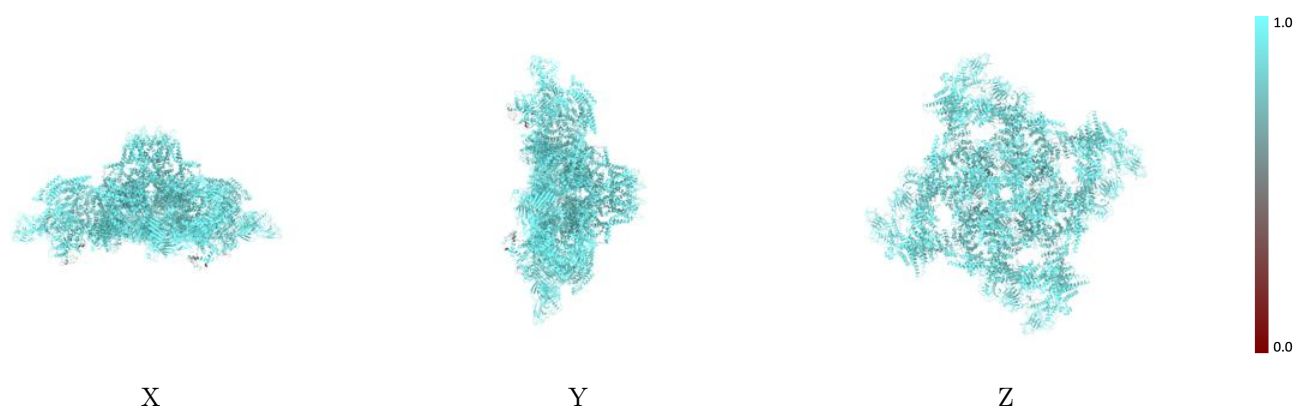
This section was not generated.

9.2 Q-score mapped to coordinate model [i](#)



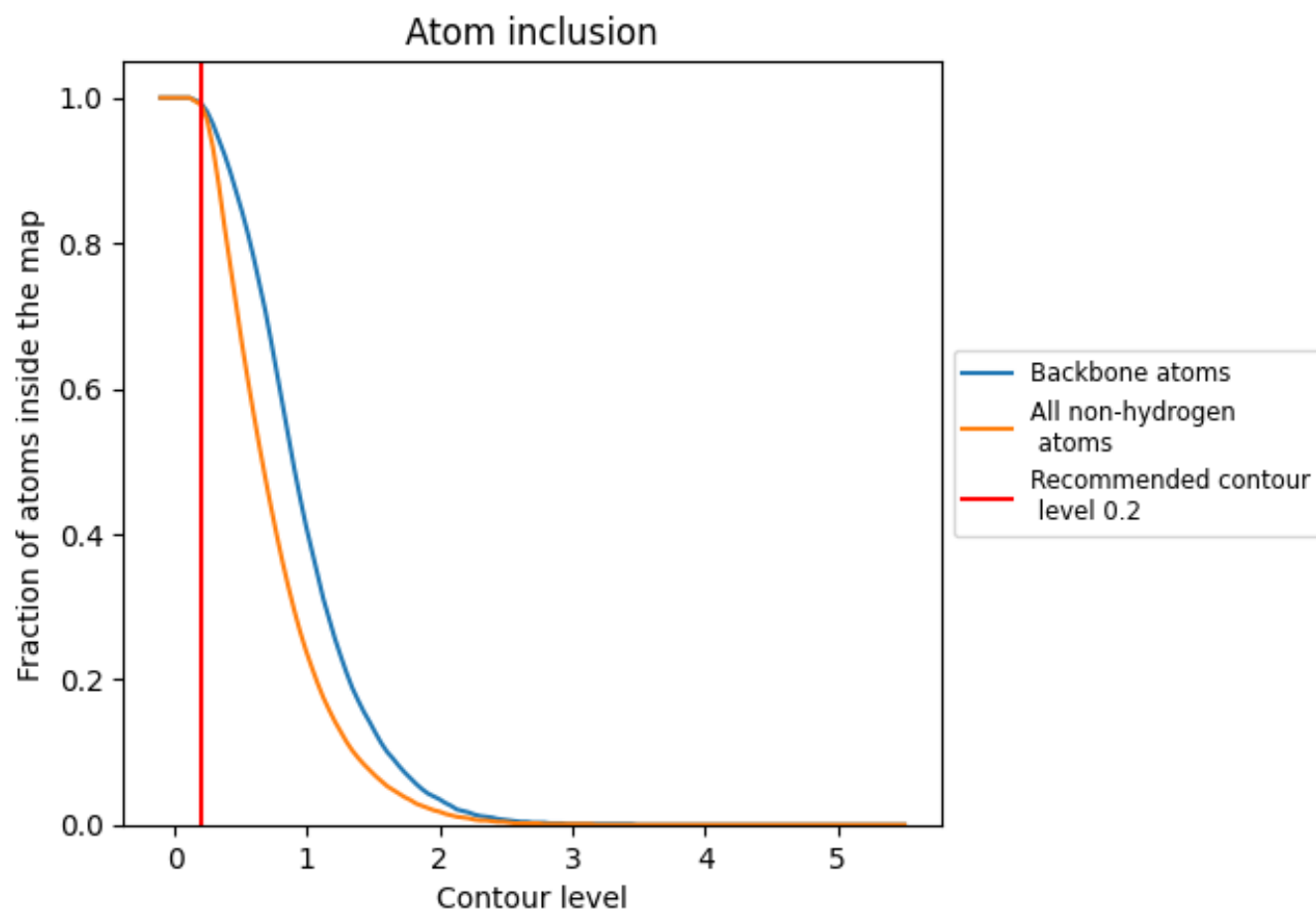
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 99% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9900	0.1540
A	0.9980	0.1450
B	0.9910	0.1570
C	0.9680	0.0830
D	0.9980	0.1380
E	0.9910	0.1560
F	0.9680	0.0820
G	0.9910	0.1570
H	0.9980	0.1350
I	0.9980	0.1380
J	0.9910	0.1560
K	0.9680	0.0800
M	0.9670	0.0810

